



APPENDIX V

SUGGESTED PARTNER RESPONSIBILITIES

Appendix V provides a suggested listing of the Next Generation Air Transportation System (NextGen) Partners responsibilities to NextGen Integrated Work Plan (IWP) planning elements. The IWP has aligned each planning element to a Suggested Office of Primary Responsibility (SOPR) and may have one or more supporting Suggested Office of Collateral Responsibility (SOCR).

Appendix V is grouped alphabetically by Partner name. The planning elements aligned to each partner are grouped by SOPR and SOCR respectively. The SOPR and SOCR grouping are listed in order of Operational Improvements, Enablers, R&D Activities, and Policies, and then by date within each element type.

Each listing displays the following information:

- **Suggested Office of Primary Responsibility (SOPR):** Displays all planning elements where it is suggested that the Organization has a primary role in the elements development and implementation.
- **Suggested Office of Collateral Responsibility (SOCR):** Displays all planning elements where it is suggested that the Organization will provide support to the primary office, which will develop and implement the specified element.

A more detailed discussion of responsibility expectations for SOPR and SOCR can be found in IWP Chapter 1 - Introduction.

Air Carriers		IOC/IA Date
Alignment as SOCR		
OI-4106	Integrated Passenger Screening, Credentialing and Identification - Level 2	2013
OI-4103	Integrated Aviation Worker Screening and Credentialing	2014
EN-3016	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 1	2008
EN-3036	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2	2011
EN-3037	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3	2013

Airport Operator		IOC/IA Date
Alignment as SOPR		
OI-5006	Coordinated Ramp Operations Management.....	2014
OI-5009	Improved Tactical Management of Airport Operations	2015
OI-5010	Advanced Winter Weather Operations - Level 1.....	2015
OI-5012	Airport Intermodal Ground Access	2015
OI-5014	Efficient Passenger Flows In Terminal Buildings.....	2017
OI-5015	Off-Airport Passenger and Baggage Processing.....	2017
OI-5002	Improved Strategic Management of Existing Infrastructure (Airside)	2020
OI-5003	Improved Strategic Management of Existing Infrastructure (Landside)	2020
OI-5110	Advanced Winter Weather Operations - Level 2.....	2020
OI-5008	Advanced Weather Capability for Airside Facilities	2022
OI-5004	New Airside Airport Infrastructure	2025
OI-5005	New Landside Airport Infrastructure	2025
OI-5111	Advanced Winter Weather Operations - Level 3.....	2025
EN-5036	NetCentric Airport Information Standards	2011
EN-4201	Airport Surveillance, Tracking and Detection System - Level 1	2014
EN-3066	Improved Ground-Based Systems Health Management - Level 1	2015

Alignment as SOCR		IOC/IA Date
OI-4101	Integrated Passenger Screening, Credentialing and Identification - Level 1	2012
OI-4103	Integrated Aviation Worker Screening and Credentialing	2014
OI-4400	Improved Processing of Cargo and Mail Transported via SSCE and CSCE	2014
OI-4401	Improved Cargo and Mail Screening - Level 1 Components	2015
OI-4201	Reduced Threat from Unauthorized Persons Entering Airport - Level 1 Components.....	2016
OI-4203	Reduce CBRNE Threats from Entering Airport.....	2016
OI-4204	Common and Synchronized Airport Emergency and Disaster Response	2016
OI-5011	Integrated International Passenger Arrival Processing	2017
OI-4301	Improved Baggage Screening - Level 2 Integrated	2018
OI-4403	Improved Cargo and Mail Screening - Level 2 Integrated	2018
OI-4202	Reduced Threat from Unauthorized Persons Entering Airport - Level 2 LEO Integration	2022
EN-5007	Zero or Low-Emissions Ground Support Equipment.....	2010
EN-5033	Identification of Constrained Airports and Regions	2010
EN-5012	Airport Rescue Fire Fighting.....	2012
EN-5041	Regional Planning Processes.....	2012
EN-5001	Airport-Compatible Land Use	2013
EN-5009	Airside Resource Management System - Level 1	2013
EN-5010	Landside Resource Management System - Level 1	2013
EN-5014	Runway Friction - Ground-Based Sensors and Technology	2013

Airport Operator

EN-5017	Airport Winter Operations Resource Management System - Level 1	2013
EN-5029	Intermodal Ground Transportation Information System	2013
EN-5030	Remote Check-In Processing Systems	2013
EN-5011	Airport Resource Management System - Level 1	2014
EN-4208	Airport CBRNE Detection Systems	2015
EN-5026	Design Guidelines for NextGen Airport Passenger Terminal Buildings	2015
EN-5023	Advanced De-Icing/Anti-Icing Fluid Recovery	2016
EN-5024	Water Quality Management	2016
EN-5217	Airport Winter Operations Resource Management System - Level 2	2018
EN-4250	Airport Surveillance, Tracking and Detection System - Level 2	2020
EN-5032	Streamlined Airport Development Processes	2020
EN-5035	Post-Implementation Evaluations of Airport Development Actions	2020
EN-5209	Airside Resource Management System - Level 2	2020
EN-5210	Landside Resource Management System - Level 2	2020
EN-5211	Airport Resource Management System - Level 2	2020
R-0080	Applied Research of Best Management Practices for Regional System Planning	2010
R-0310	Basic Research on Airport System Evolution in Large Metropolitan Areas	2011
R-0090	Applied Research on Industry Standards for Intermodal Travel Planning	2012
D-0560	Airport Information Architecture	2012

DHS

Alignment as SOPR		IOC/IA Date
OI-4101	Integrated Passenger Screening, Credentialing and Identification - Level 1	2012
OI-4106	Integrated Passenger Screening, Credentialing and Identification - Level 2	2013
OI-4103	Integrated Aviation Worker Screening and Credentialing	2014
OI-4400	Improved Processing of Cargo and Mail Transported via SSCE and CSCE	2014
OI-4500	Integrated Flight Risk Management and Risk Mitigation - Level 1 Static	2014
OI-4520	Integrated Risk-Based Planning and Management of Security Resources	2014
OI-4401	Improved Cargo and Mail Screening - Level 1 Components	2015
OI-4201	Reduced Threat from Unauthorized Persons Entering Airport - Level 1 Components	2016
OI-4203	Reduce CBRNE Threats from Entering Airport	2016
OI-4204	Common and Synchronized Airport Emergency and Disaster Response	2016
OI-4300	Improved Baggage Screening - Level 1 Components	2016
OI-4600	Reduced Threat of Aircraft and UAS Destruction or Used as a Weapon	2016
OI-4105	Improved Passenger Checkpoint Screening - Level 1	2017
OI-5011	Integrated International Passenger Arrival Processing	2017
OI-4301	Improved Baggage Screening - Level 2 Integrated	2018
OI-4403	Improved Cargo and Mail Screening - Level 2 Integrated	2018
OI-4601	External Aircraft/UAS Threat Protection	2018
OI-4107	Improved Passenger Checkpoint Screening - Level 2	2021
OI-4521	Integrated Command/Control for Security Incident Response and Recovery	2021
OI-4202	Reduced Threat from Unauthorized Persons Entering Airport - Level 2 LEO Integration	2022
OI-4502	Integrated Flight Risk Management and Risk Mitigation - Level 2 Dynamic	2025
EN-4119	Biometrics and Credential Standards with Airport Access Focus	2009
EN-4113	Passenger Checkpoint Screening - Requirements	2010
EN-4114	Passenger Checkpoint Screening - National Standards	2010

DHS

EN-4311	Cargo & Mail Screening - National Standards.....	2010
EN-1240	NextGen Enterprise Network - DHS	2011
EN-4107	Checkpoint Screening Technology - Enhance Passenger Screening Throughput	2011
EN-4203	Multi-Agency Security Information Sharing/Delegation Protocols.....	2011
EN-4205	BPR Technology and Procedures	2011
EN-4310	Cargo & Mail Screening - Requirements	2011
EN-1254	Information Sharing Standards: Security Information	2012
EN-1274	NextGen Security Information Services - DHS Group 1	2012
EN-4109	Checkpoint Screening Technology - Reduction and Improved False Alarm Resolution	2012
EN-4120	Integrated Passenger Screening, Credentialing and Risk Management System - Level 1	2012
EN-4121	Integrated Passenger Screening, Credentialing and Risk Management System - Level 2	2012
EN-4202	Integrated and Secure Airport Voice/Data Network	2012
EN-4206	National Airport Emergency Response Protocol/Policies/Procedures	2012
EN-4500	Flight Risk Management System - Level 1 Static.....	2012
EN-4520	Integrated Risk Management (IRM) System.....	2012
EN-4601	Aircraft Hijack/Unauthorized Diversion Technologies and Procedures	2012
EN-4602	Aircraft Threat Containment and Survivability Hardening.....	2012
EN-4204	Transportation Worker Identification Credentialing /Access Control/Tracking System.....	2013
EN-4301	Baggage/Cargo Screening Technology - CBRNE and Weapons.....	2014
EN-1143	Ground Based Navigation System (GBNS) - eLORAN	2015
EN-4110	Checkpoint Screening Technology - Optimize Screening Infrastructure Requirements	2015
EN-4208	Airport CBRNE Detection Systems	2015
EN-4302	Baggage/Cargo Screening Technology - Increased Effectiveness	2015
EN-5028	Integrated International Customs Border Protection/Security Service Provider Services	2015
EN-4106	Checkpoint Screening Technology - CBRNE and Weapons.....	2016
EN-4118	Checkpoint Screening Technology - Threat Containment.....	2016
EN-4307	Baggage/Cargo Screening Technology - Integrated Screening System.....	2016
EN-4521	Flight Risk Management System - Level 2 Dynamic	2016
EN-4600	Aircraft Security Systems and Policies.....	2016
EN-4108	Checkpoint Screening Technology - Integrated Screening System.....	2017
EN-4610	Aircraft External Threat Defense/Mitigation Systems	2017
EN-4250	Airport Surveillance, Tracking and Detection System - Level 2	2020
EN-4522	Unified National Aviation Command, Control and Communication Architecture.....	2020
R-0180	Applied Research on Secure Information Exchanges at Command and Control Facilities.....	2010
R-0700	Applied Research on Efficient Screening Checkpoint Design Models.....	2012
R-0980	Applied Research on Sensor Threat Detection and Screening Technology	2013
R-1000	Applied Research on Efficient Baggage Screening Design Models	2013
R-1160	Applied Research on Cargo/Mail Threat Detection and Screening Technologies	2014
R-1170	Applied Research on Flight Risk Assessment Algorithms	2014
R-1300	Applied Research on Modular Components used in Threat Detection and Screening Technologies.....	2015
R-1310	Applied Research on a Checked Baggage Threat Detection and Screening System.....	2015
D-2111	Threat Detection and Screening Technologies.....	2009
D-0190	Threat-Vector Analysis Capability.....	2010
D-0440	Secure and Certified Supply Chain Entity	2011
D-0450	Common Situational Awareness Capability.....	2011
D-0460	Enterprise Airport Security Data Management System	2011
D-0710	Baggage/Cargo/Mail Monitoring System.....	2012

DHS	
	IOC/IA Date
D-0730 Security Incident Management System	2012
D-0970 Real-Time Airport Intruder Identification and Tracking System.....	2013
D-1180 Aircraft Explosives Detection and Mitigation	2014
D-1320 Missile Defense Systems for Commercial Aircraft	2015
PI-0079 Global Security	2010
PI-0080 Screening Requirement For Meeters And Greeters	2010
PI-0095 National Security Policies for Passenger and Cargo Screening	2010
PI-0096 Security Financing Responsibility for Passenger and Cargo Screening.....	2010
PI-0098 Non-Cooperative Target Support	2010
PI-0099 Air Cargo and Mail Security Requirements	2010
PI-0111 Airport Security Governance.....	2011
PI-0071 Defense System Standards - Global Harmonization	2012
PI-0081 Perimeter Security	2012
PI-0097 Airport Emergency Response.....	2012
PI-0074 General Aviation Airport Security Requirements	2013
PI-0091 Airport Worker Vetting	2013
PI-0100 Certified Supply Chain Entity (CSCE).....	2013
Alignment as SOCR	
OI-4501 Improved Security Restricted Airspace Planning/Management - Level 1 Pre-Defined.....	2012
OI-4511 Improved Security Restricted Airspace Planning/Management - Level 2 Integration.....	2015
OI-4512 Improved Security Restricted Airspace Planning/Management - Level 3 Flight Risk	2025
EN-1017 Non-Cooperative Surveillance Legacy LRR	2008
EN-1020 Non-Cooperative Surveillance Legacy ASR-8	2008
EN-1021 Non-Cooperative Surveillance - Legacy ASR-9	2008
EN-1402 Integrated Surveillance Strategy.....	2008
EN-3018 Safety Management Requirements.....	2008
EN-1229 Enterprise Networking Governance Model	2009
EN-1230 Enterprise Networking Governance Structure	2010
EN-1406 Airport Surveillance Video.....	2010
EN-4210 Airport Command, Control, and Communications Center Architecture	2010
EN-1015 Enterprise Network Management Standards	2011
EN-1016 Enterprise Networks Infrastructure Services Standards	2011
EN-1043 Enterprise Networks Security Services Standards	2011
EN-3036 Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2.....	2011
EN-1003 Non-Cooperative Surveillance Information Service	2012
EN-1049 Integrated Surveillance Information Service Level 1.....	2012
EN-3041 National SMS Standard Implementation- Level 2	2012
EN-4510 Security Airspace Planning and Management - Level 1	2012
EN-0033 Airspace/Capacity/Flow Contingency Management Decision Support - Level 1	2013
EN-3037 Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3.....	2013
EN-4312 Baggage/Cargo Screening Technology - Threat Containment.....	2013
EN-4401 Certified Supply Chain Entity	2013
EN-4403 Secure Supply Chain Entity	2013
EN-3120 Integrated Safety Assurance and Risk Management - Level 2.....	2014
EN-4201 Airport Surveillance, Tracking and Detection System - Level 1	2014
EN-4511 Security Airspace Planning and Management - Level 2	2014
EN-1040 Space Based Navigation System - Galileo	2015

DHS

EN-1510	Integrated Surveillance Information Service Level 2.....	2015
EN-3114	Participate Internationally in Aviation Forums	2016
EN-3115	Establish International Aviation Development Partnerships	2016
EN-3116	Support Execution of ICAO Global Aviation Safety Roadmap and Implementation Plan	2016
EN-4116	Off Airport Passenger and Baggage Security Screening (RTSS)	2016
EN-0036	Airspace/Capacity/Flow Contingency Management Decision Support - Level 2 Limited Dynamic	2018
EN-1044	Space Based Navigation System - International GNSS	2018
EN-1511	Integrated Surveillance Information Service Level 3.....	2020
EN-0180	Airspace/Capacity/Flow Contingency Management Decision Support - Level 3 Dynamic	2022
EN-1101	Enhanced NextGen PNT Services	2025
EN-1512	Integrated Surveillance Information Service Level 4.....	2025
EN-4512	Security Airspace Planning and Management - Level 3	2025
R-0270	Applied Research on a National Surveillance and Communications Needs Assessment	2010
R-0660	Applied Research on Integrating NextGen Information into an Automated Environment	2012
R-0790	Applied Research for a National Surveillance Architecture.....	2012
R-0940	Applied Research on the Roles and Responsibilities in a Shared Information Environment	2013
R-0950	Applied Research on Net-Centric Stakeholder Access to NextGen Information.....	2013
R-0990	Applied Research on Aircraft Support Systems	2013
R-1030	Applied Research on Environmental Metrics for New and Alternative Vehicle Classes	2013
D-0160	SMS Standard.....	2008
D-0030	Planning, Collaboration, and Coordination Functions for Airspace Security	2009
D-0260	Development of NextGen Interagency NCI Requirements.....	2010
D-1560	Flight Risk Assessment Algorithms	2011
D-0850	Network-Enabled Weather Information System.....	2013
D-1070	Development of NextGen Interagency Net-Centric Security Requirements	2013
D-1550	Augmentation Strategy for GNSS.....	2013
D-2110	Environmental Metrics of New and Alternative Vehicle Classes	2015
PI-0009	National Integrated Surveillance Plan.....	2008
PI-0024	Secure Information Exchange	2008
PI-0030	Safety Management Requirements.....	2008
PI-0031	Safety National Leadership Organization.....	2008
PI-0033	National Aviation Safety Strategic Plan (NASSP).....	2008
PI-0108	Certifying Use of Net-Centric Information.....	2008
PI-0120	PNT Performance Requirements	2008
PI-0010	National Surveillance Strategy	2009
PI-0017	Communications Architecture Plan for Ground, Space, Airborne, and/or Performance-Based Architectures..	2009
PI-0021	Protection of Data Shared Over-The-Air	2009
PI-0012	Surveillance - Global Harmonization.....	2010
PI-0115	NextGen Safety Assessment/Certification - Synchronization of Aircraft and ANS Capabilities	2010
PI-0116	NextGen Safety Assessment/Certification - Standards and Tools	2010
PI-0117	NextGen Safety Assessment/Certification - Resources	2010
PI-0032	Government-Wide Safety Information Sharing	2011
PI-0045	Airport Ground Transportation Access	2011
PI-0092	Network-Enabled Aviation Safety Information Sharing Environment - Stakeholders	2011
PI-0110	International Commercial Space Operations	2011
PI-0072	Use of Unmanned Aircraft for Security Missions.....	2012
PI-0073	Frequency/Spectrum - Global Harmonization	2012

DOC		IOC/IA Date
Alignment as SOPR		
OI-2010	Net-Enabled Common Weather Information Infrastructure.....	2013
OI-2020	Net-Enabled Common Weather Information - Level 1 Initial Capability	2013
OI-2021	Net-Enabled Common Weather Information - Level 2 Adaptive Control/Enhanced Forecast	2018
OI-2022	Net-Enabled Common Weather Information - Level 3 Full NextGen.....	2022
EN-2040	NextGen Net-Enabled Virtual 4D Weather Cube Governance Structure	2009
EN-2210	Network-Enabled Weather Observation Strategy	2009
EN-2710	NextGen Net-Enabled Virtual Four-Dimensional (4D) Weather Cube Governance Model	2009
EN-2050	Information Sharing Standards: Weather Information	2010
EN-2080	Network-Enabled User-Defined Weather Information Request Function	2010
EN-2270	Integrated Observation Governance Structure	2010
EN-1234	NextGen Enterprise Network - DOC	2011
EN-2240	Network-Enabled Weather Observation System - Satellites Level 1	2012
EN-2260	Network-Enabled Weather Observation System - Integrated Level 1.....	2012
EN-2410	Weather Forecasts - Consolidated Convective Storm - Level 1	2012
EN-2420	Weather Forecasts - Consolidated Icing - Level 1	2012
EN-2430	Weather Forecasts - Consolidated Turbulence - Level 1	2012
EN-2440	Weather Forecasts - Consolidated Ceiling and Visibility - Level 1.....	2012
EN-2520	Weather Forecasts - Consolidated Winter Storm - Level 1.....	2012
EN-2010	NextGen 4D Weather Cube Information - Level 1 Initial Operating Capability	2013
EN-2500	Improve Weather Models - Level 1.....	2013
EN-2250	Network-Enabled Weather Observation System - Adaptive Control	2015
EN-2241	Network-Enabled Weather Observation System - Satellites Level 2	2016
EN-2261	Network-Enabled Weather Observation System - Integrated Level 2.....	2016
EN-2411	Weather Forecasts - Consolidated Convective Storm - Level 2	2016
EN-2421	Weather Forecasts - Consolidated Icing - Level 2	2016
EN-2431	Weather Forecasts - Consolidated Turbulence - Level 2	2016
EN-2441	Weather Forecasts - Consolidated Ceiling and Visibility - Level 2.....	2016
EN-2451	Weather Forecasts - Volcanic Ash - Level 2	2016
EN-2481	Weather Forecasts - Space - Level 2.....	2016
EN-2521	Weather Forecasts - Consolidated Winter Storm - Level 2.....	2016
EN-2501	Improve Weather Models - Level 2.....	2017
EN-2020	NextGen 4D Weather Cube Information - Level 2 Adaptive Control/Enhanced Forecasts	2018
EN-2242	Network-Enabled Weather Observation System - Satellites Level 3	2020
EN-2262	Network-Enabled Weather Observation System - Integrated Level 3.....	2020
EN-2412	Weather Forecasts - Consolidated Convective Storm - Level 3	2020
EN-2422	Weather Forecasts - Consolidated Icing - Level 3	2020
EN-2432	Weather Forecasts - Consolidated Turbulence - Level 3	2020
EN-2442	Weather Forecasts - Consolidated Ceiling and Visibility - Level 3.....	2020
EN-2452	Weather Forecasts - Volcanic Ash - Level 3	2020
EN-2482	Weather Forecasts - Space - Level 3.....	2020
EN-2522	Weather Forecasts - Consolidated Winter Storm - Level 3.....	2020
EN-2030	NextGen 4D Weather Cube Information - Level 3 Full NextGen.....	2022
R-1520	Applied Research on the Role of Human Forecasters and Automated Systems	2011
D-2117	Network-Enabled Weather Data Standards	2009
D-2193	Enhanced Space-Based Weather Sensors.....	2010

DOC

D-0320	Adaptive Weather Observation Capabilities	2011
D-0840	Weather Forecast Assessment Verification System	2013
D-0850	Network-Enabled Weather Information System.....	2013
D-1530	Spatial Weather Prediction Models for the 4D Weather Cube.....	2013
Alignment as SOCR		IOC/IA Date
EN-3018	Safety Management Requirements.....	2008
EN-6038	Science of Global Climate - Level 1 Baseline	2008
EN-1229	Enterprise Networking Governance Model	2009
EN-2700	Weather Information Regulatory Structure.....	2009
EN-1230	Enterprise Networking Governance Structure	2010
EN-1015	Enterprise Network Management Standards	2011
EN-1016	Enterprise Networks Infrastructure Services Standards	2011
EN-1043	Enterprise Networks Security Services Standards	2011
EN-2680	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 1	2011
EN-3036	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2.....	2011
EN-6034	Environmental Tradeoffs and Metrics of Fuel Burn - Level 2 Enhanced.....	2011
EN-6039	Enhanced Global Climate Metrics	2011
EN-6053	Science of Global Climate - Level 2 Advanced	2011
EN-0150	Wake Vortex Configuration Advisory Decision Support - Level 1 Static Drift Only	2012
EN-2220	Network-Enabled Weather Observation System - Ground-Based Level 1	2012
EN-2230	Network-Enabled Weather Observation System - Airborne Level 1 - Major Carriers.....	2012
EN-2470	Weather Information - Wake Vortex - Level 1	2012
EN-3041	National SMS Standard Implementation- Level 2	2012
EN-2060	Legacy Weather Applications Integrated with Network-enabled Weather Information	2013
EN-3037	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3.....	2013
EN-0151	Wake Vortex Configuration Advisory Decision Support - Level 2 Dynamic Drift.....	2014
EN-3120	Integrated Safety Assurance and Risk Management - Level 2.....	2014
EN-0152	Wake Vortex Configuration Advisory Decision Support - Level 3 Dynamic Drift/Decay	2016
EN-2221	Network-Enabled Weather Observation System - Ground-Based Level 2	2016
EN-2231	Network-Enabled Weather Observation System - Airborne Level 2 - High-End Aircraft	2016
EN-2461	Weather Forecasts - Environment - Level 2.....	2016
EN-2471	Weather Information - Wake Vortex - Level 2	2016
EN-3114	Participate Internationally in Aviation Forums	2016
EN-3115	Establish International Aviation Development Partnerships	2016
EN-3116	Support Execution of ICAO Global Aviation Safety Roadmap and Implementation Plan	2016
EN-2681	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 2.....	2017
EN-2070	Aircraft Systems - Aircraft-Aircraft Hazardous Weather Information Sharing.....	2019
EN-2222	Network-Enabled Weather Observation System - Ground-Based Level 3	2020
EN-2232	Network-Enabled Weather Observation System - Airborne Level 3 - UAS	2020
EN-2462	Weather Forecasts - Environment - Level 3.....	2020
EN-2472	Weather Information - Wake Vortex - Level 3	2020
EN-2682	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 3	2021
R-0110	Applied Research on the Integration of Forecast and Observational Data	2010
R-1760	Applied Research on the Methodologies and Metrics to Assess Climate Change Impacts	2011
R-2112	Applied Research on Weather Integration into NextGen Decision Making.....	2011
R-2114	Applied Research on Improved Weather Sensing and Forecasting Models.....	2011
R-0580	Applied Research for Initial Probabilistic Weather Forecasts	2012

DOC

R-0660	Applied Research on Integrating NextGen Information into an Automated Environment	2012
R-0790	Applied Research for a National Surveillance Architecture.....	2012
R-0940	Applied Research on the Roles and Responsibilities in a Shared Information Environment	2013
R-0950	Applied Research on Net-Centric Stakeholder Access to NextGen Information.....	2013
D-0160	SMS Standard.....	2008
D-2179	Enhanced Ground-Based Weather Sensors.....	2008
D-2191	Enhanced Airborne-Based Weather Sensors	2008
D-0260	Development of NextGen Interagency NCI Requirements	2010
D-2115	Initial Probabilistic Weather Forecasts	2010
D-2113	Operating Procedures for Human Forecasters using Automated Systems	2011
D-2141	Methodologies and Metrics to Assess Aviation's Impact on Climate Change	2011
D-1070	Development of NextGen Interagency Net-Centric Security Requirements	2013
D-1220	Development of Weather Hazard Severity Indices	2015
D-0890	Dynamic Wake Management for Single Runway Operations	2016
PI-0024	Secure Information Exchange	2008
PI-0030	Safety Management Requirements.....	2008
PI-0031	Safety National Leadership Organization.....	2008
PI-0033	National Aviation Safety Strategic Plan (NASSP).....	2008
PI-0108	Certifying Use of Net-Centric Information.....	2008
PI-0017	Communications Architecture Plan for Ground, Space, Airborne, and/or Performance-Based Architectures..	2009
PI-0088	Federal vs. Private Role In Weather Services.....	2009
PI-0115	NextGen Safety Assessment/Certification - Synchronization of Aircraft and ANS Capabilities	2010
PI-0116	NextGen Safety Assessment/Certification - Standards and Tools	2010
PI-0117	NextGen Safety Assessment/Certification - Resources	2010
PI-0032	Government-Wide Safety Information Sharing	2011
PI-0089	Weather Avoidance Decision Making.....	2011
PI-0092	Network-Enabled Aviation Safety Information Sharing Environment - Stakeholders	2011
PI-0073	Frequency/Spectrum - Global Harmonization	2012
PI-0086	Weather Information Policy - Global Harmonization	2012
PI-0002	NextGen Facilities	2015

DOD

Alignment as SOPR		IOC/IA Date
OI-0346	Improved Management of Airspace for Special Use	2012
OI-0365	Advanced Management of Airspace for Special Use.....	2023
EN-1017	Non-Cooperative Surveillance Legacy LRR	2008
EN-1160	Space Based Navigation System - GPS Legacy	2008
EN-1229	Enterprise Networking Governance Model	2009
EN-1230	Enterprise Networking Governance Structure	2010
EN-1015	Enterprise Network Management Standards	2011
EN-1016	Enterprise Networks Infrastructure Services Standards	2011
EN-1043	Enterprise Networks Security Services Standards	2011
EN-1237	NextGen Enterprise Network - DOD.....	2011
EN-1003	Non-Cooperative Surveillance Information Service	2012
EN-1041	Space Based Navigation System - GPS Aviation Dual Frequency	2013
EN-1042	Space Based Navigation System - GPS Enhanced Accuracy/Integrity Monitoring	2020

DOD

R-0790	Applied Research for a National Surveillance Architecture.....	2012
R-1810	Applied Research on a Low Cost Inertial Navigation System (INS)	2012
R-0940	Applied Research on the Roles and Responsibilities in a Shared Information Environment	2013
R-0950	Applied Research on Net-Centric Stakeholder Access to NextGen Information.....	2013
R-1190	Applied Research on Certification Methods, Requirements, and Standards for UASs.....	2014
D-0260	Development of NextGen Interagency NCI Requirements.....	2010
D-2143	National Surveillance Architecture	2010
D-1070	Development of NextGen Interagency Net-Centric Security Requirements	2013
PI-0024	Secure Information Exchange	2008
PI-0108	Certifying Use of Net-Centric Information.....	2008
PI-0120	PNT Performance Requirements	2008
PI-0017	Communications Architecture Plan for Ground, Space, Airborne, and/or Performance-Based Architectures..	2009

Alignment as SOCR

IOC/IA Date

OI-4501	Improved Security Restricted Airspace Planning/Management - Level 1 Pre-Defined.....	2012
OI-2010	Net-Enabled Common Weather Information Infrastructure.....	2013
OI-2020	Net-Enabled Common Weather Information - Level 1 Initial Capability	2013
OI-4500	Integrated Flight Risk Management and Risk Mitigation - Level 1 Static.....	2014
OI-4520	Integrated Risk-Based Planning and Management of Security Resources	2014
OI-4511	Improved Security Restricted Airspace Planning/Management - Level 2 Integration.....	2015
OI-6012	Implement NextGen Environmental Engine and Aircraft Technologies - Level 1.....	2015
OI-6017	Increased Use of Alternative Aviation Fuels.....	2015
OI-0381	GBAS Precision Approaches	2017
OI-2021	Net-Enabled Common Weather Information - Level 2 Adaptive Control/Enhanced Forecast	2018
OI-4601	External Aircraft/UAS Threat Protection.....	2018
OI-4521	Integrated Command/Control for Security Incident Response and Recovery	2021
OI-6023	Implement NextGen Environmental Engine and Aircraft Technologies - Level 2.....	2021
OI-2022	Net-Enabled Common Weather Information - Level 3 Full NextGen.....	2022
OI-0366	Dynamic Airspace Reclassification.....	2023
OI-4502	Integrated Flight Risk Management and Risk Mitigation - Level 2 Dynamic	2025
OI-4512	Improved Security Restricted Airspace Planning/Management - Level 3 Flight Risk	2025
EN-1020	Non-Cooperative Surveillance Legacy ASR-8	2008
EN-1021	Non-Cooperative Surveillance - Legacy ASR-9	2008
EN-1045	Space Based Augmentation System - WAAS	2008
EN-1065	Ground Based Navigation System (GBNS) - Lighting Systems (Legacy)	2008
EN-1402	Integrated Surveillance Strategy.....	2008
EN-3018	Safety Management Requirements.....	2008
EN-6010	Available Alternative Fuels - Level 1	2008
EN-6013	NextGen Environmental Protection Goals - Level 1 Initial	2008
EN-6022	Science and Metrics of Noise - Level 1 Baseline.....	2008
EN-6023	Science and Metrics of Local Emissions - Level 1 Baseline	2008
EN-6024	Environmental Tradeoffs and Metrics of Fuel Burn – Level 1 Baseline	2008
EN-0170	SUA Management Decision Support - Level 1.....	2009
EN-2040	NextGen Net-Enabled Virtual 4D Weather Cube Governance Structure.....	2009
EN-2210	Network-Enabled Weather Observation Strategy	2009
EN-2700	Weather Information Regulatory Structure.....	2009
EN-2710	NextGen Net-Enabled Virtual Four-Dimensional (4D) Weather Cube Governance Model	2009
EN-6049	Available Alternative Fuels - Level 2	2009

DOD

EN-1250	Information Sharing Standards: Flow Information	2010
EN-1251	Information Sharing Standards: Flight and Surveillance Information	2010
EN-1252	Information Sharing Standards: Airspace Information	2010
EN-1253	Information Sharing Standards: Aviation Safety Information	2010
EN-2050	Information Sharing Standards: Weather Information	2010
EN-2080	Network-Enabled User-Defined Weather Information Request Function	2010
EN-2270	Integrated Observation Governance Structure	2010
EN-0028	Avionics - Access to Airspace Boundary Information	2011
EN-0206	Consolidated Aeronautical Information - Level 1 Network-Enabled Legacy.....	2011
EN-2680	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 1	2011
EN-3036	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2.....	2011
EN-3119	Integrated Safety Assurance and Risk Management - Level 1.....	2011
EN-6011	Environmental Impact Modeling and Assessment - Level 1	2011
EN-6032	Science and Metrics of Noise - Level 2 Advanced.....	2011
EN-6041	NextGen Environmental Protection Goals - Level 2 Refined.....	2011
EN-0039	UAS Detail Operation Concept.....	2012
EN-1254	Information Sharing Standards: Security Information	2012
EN-2220	Network-Enabled Weather Observation System - Ground-Based Level 1	2012
EN-2230	Network-Enabled Weather Observation System - Airborne Level 1 - Major Carriers.....	2012
EN-2240	Network-Enabled Weather Observation System - Satellites Level 1	2012
EN-2260	Network-Enabled Weather Observation System - Integrated Level 1.....	2012
EN-2410	Weather Forecasts - Consolidated Convective Storm - Level 1	2012
EN-2420	Weather Forecasts - Consolidated Icing - Level 1	2012
EN-2430	Weather Forecasts - Consolidated Turbulence - Level 1	2012
EN-2440	Weather Forecasts - Consolidated Ceiling and Visibility - Level 1.....	2012
EN-2520	Weather Forecasts - Consolidated Winter Storm - Level 1.....	2012
EN-3041	National SMS Standard Implementation- Level 2	2012
EN-4500	Flight Risk Management System - Level 1 Static.....	2012
EN-4510	Security Airspace Planning and Management - Level 1	2012
EN-4520	Integrated Risk Management (IRM) System.....	2012
EN-4601	Aircraft Hijack/Unauthorized Diversion Technologies and Procedures	2012
EN-0033	Airspace/Capacity/Flow Contingency Management Decision Support - Level 1	2013
EN-0034	Trajectory Management Decision Support - Level 1	2013
EN-0171	SUA Management Decision Support - Level 2.....	2013
EN-0207	Consolidated Aeronautical Information - Level 2 Integrated Status.....	2013
EN-2010	NextGen 4D Weather Cube Information - Level 1 Initial Operating Capability	2013
EN-2060	Legacy Weather Applications Integrated with Network-enabled Weather Information	2013
EN-2500	Improve Weather Models - Level 1.....	2013
EN-3037	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3.....	2013
EN-6050	Available Alternative Fuels - Level 3	2013
EN-3105	Increase Data Access for Safety Risk Management	2014
EN-3120	Integrated Safety Assurance and Risk Management - Level 2.....	2014
EN-4511	Security Airspace Planning and Management - Level 2	2014
EN-1040	Space Based Navigation System - Galileo	2015
EN-1143	Ground Based Navigation System (GBNS) - eLORAN	2015
EN-2250	Network-Enabled Weather Observation System - Adaptive Control.....	2015
EN-3054	Improved Reliability and Airworthiness of Aircraft - Level 1	2015

DOD

EN-3056	Improved Vehicle Systems Health Management - Level 1.....	2015
EN-3121	Integrated Safety Assurance and Risk Management - Level 3.....	2015
EN-3130	Increased Crash Survivability - Aircraft Structures & Components.....	2015
EN-3131	Increased Crash Survivability- Aircraft Fire Prevention & Suppression.....	2015
EN-4208	Airport CBRNE Detection Systems	2015
EN-6018	Enhanced Environmental Information	2015
EN-6051	Available Alternative Fuels - Level 4	2015
EN-2221	Network-Enabled Weather Observation System - Ground-Based Level 2	2016
EN-2231	Network-Enabled Weather Observation System - Airborne Level 2 - High-End Aircraft	2016
EN-2241	Network-Enabled Weather Observation System - Satellites Level 2	2016
EN-2261	Network-Enabled Weather Observation System - Integrated Level 2.....	2016
EN-2411	Weather Forecasts - Consolidated Convective Storm - Level 2	2016
EN-2421	Weather Forecasts - Consolidated Icing - Level 2	2016
EN-2431	Weather Forecasts - Consolidated Turbulence - Level 2	2016
EN-2441	Weather Forecasts - Consolidated Ceiling and Visibility - Level 2.....	2016
EN-2451	Weather Forecasts - Volcanic Ash - Level 2.....	2016
EN-2461	Weather Forecasts - Environment - Level 2.....	2016
EN-2481	Weather Forecasts - Space - Level 2.....	2016
EN-2521	Weather Forecasts - Consolidated Winter Storm - Level 2.....	2016
EN-3114	Participate Internationally in Aviation Forums	2016
EN-3115	Establish International Aviation Development Partnerships	2016
EN-3116	Support Execution of ICAO Global Aviation Safety Roadmap and Implementation Plan	2016
EN-4521	Flight Risk Management System - Level 2 Dynamic	2016
EN-1120	GBAS - Local Area Augmentation System (LAAS)	2017
EN-2501	Improve Weather Models - Level 2.....	2017
EN-2681	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 2.....	2017
EN-4610	Aircraft External Threat Defense/Mitigation Systems	2017
EN-0036	Airspace/Capacity/Flow Contingency Management Decision Support - Level 2 Limited Dynamic	2018
EN-1044	Space Based Navigation System - International GNSS	2018
EN-1066	Ground Based Navigation System (GBNS) - NextGen Lighting Systems	2018
EN-2020	NextGen 4D Weather Cube Information - Level 2 Adaptive Control/Enhanced Forecasts	2018
EN-6048	Environmental Impact Modeling and Assessment - Level 2.....	2018
EN-2070	Aircraft Systems - Aircraft-Aircraft Hazardous Weather Information Sharing.....	2019
EN-2222	Network-Enabled Weather Observation System - Ground-Based Level 3	2020
EN-2232	Network-Enabled Weather Observation System - Airborne Level 3 - UAS	2020
EN-2242	Network-Enabled Weather Observation System - Satellites Level 3.....	2020
EN-2262	Network-Enabled Weather Observation System - Integrated Level 3.....	2020
EN-2412	Weather Forecasts - Consolidated Convective Storm - Level 3	2020
EN-2422	Weather Forecasts - Consolidated Icing - Level 3	2020
EN-2432	Weather Forecasts - Consolidated Turbulence - Level 3	2020
EN-2442	Weather Forecasts - Consolidated Ceiling and Visibility - Level 3.....	2020
EN-2452	Weather Forecasts - Volcanic Ash - Level 3	2020
EN-2462	Weather Forecasts - Environment - Level 3.....	2020
EN-2482	Weather Forecasts - Space - Level 3.....	2020
EN-2522	Weather Forecasts - Consolidated Winter Storm - Level 3.....	2020
EN-4522	Unified National Aviation Command, Control and Communication Architecture.....	2020
EN-2682	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 3	2021

DOD

EN-0180	Airspace/Capacity/Flow Contingency Management Decision Support - Level 3 Dynamic	2022
EN-2030	NextGen 4D Weather Cube Information - Level 3 Full NextGen.....	2022
EN-1101	Enhanced NextGen PNT Services	2025
EN-3055	Improved Reliability and Airworthiness of Aircraft - Level 2.....	2025
EN-3126	Improved Aircraft Upset Prevention and Recovery.....	2025
EN-4512	Security Airspace Planning and Management - Level 3	2025
R-2124	Applied Research on Ultra-Low Sulfur Conventional Jet Fuels.....	2009
R-0100	Applied Research on Accuracy and Resolution Requirements for NextGen Weather Forecasts.....	2010
R-0180	Applied Research on Secure Information Exchanges at Command and Control Facilities.....	2010
R-0270	Applied Research on a National Surveillance and Communications Needs Assessment	2010
R-0340	Applied Research on 3D RNAV/RNP Procedures.....	2011
R-0470	Applied Research on Radio Spectrum Needs and Alternatives.....	2011
R-1760	Applied Research on the Methodologies and Metrics to Assess Climate Change Impacts	2011
R-2112	Applied Research on Weather Integration into NextGen Decision Making.....	2011
R-2114	Applied Research on Improved Weather Sensing and Forecasting Models	2011
R-0580	Applied Research for Initial Probabilistic Weather Forecasts	2012
R-0660	Applied Research on Integrating NextGen Information into an Automated Environment	2012
R-0680	Applied Research on the Methodologies for Dynamically Allocating NAS Resources	2012
R-0740	Applied Research on "Drop-in" Alternative Aviation Fuels	2012
R-0810	Applied Research on Noise, Emissions, and Performance Trade-offs for N+1 Aircraft.....	2012
R-1800	Applied Research on a Low Frequency GBNS	2012
R-0860	Applied Research on Hazard Information Exchange using Aircraft Sensor Technology	2013
R-1030	Applied Research on Environmental Metrics for New and Alternative Vehicle Classes	2013
R-1080	Applied Research on the Service Benefits and Costs for NextGen Aircraft Capabilities	2013
R-1780	Applied Research on Tools and Metrics to Model the Impacts of Emissions.....	2013
R-2118	Applied Research on NextGen Lighting Systems.....	2013
R-1370	Applied Research on the Operational Concept for UASs in Trajectory-Based Airspace	2015
R-1450	Applied Research into Generation After Next (N+2) Vehicle Technologies	2018
D-0160	SMS Standard.....	2008
D-2179	Enhanced Ground-Based Weather Sensors.....	2008
D-2191	Enhanced Airborne-Based Weather Sensors	2008
D-2117	Network-Enabled Weather Data Standards	2009
D-2139	ULS Conventional Jet Fuels	2009
D-1820	Foreign GNSS Usage Strategy.....	2010
D-1830	National PNT Architecture Strategy	2010
D-2115	Initial Probabilistic Weather Forecasts	2010
D-2193	Enhanced Space-Based Weather Sensors	2010
D-0320	Adaptive Weather Observation Capabilities	2011
D-0330	Aircraft-Based Precision Approach Capability	2011
D-0250	PNT Complementary and Backup System Strategy	2012
D-0730	Security Incident Management System	2012
D-0750	"Drop-In" Alternative Aviation Fuels	2013
D-0840	Weather Forecast Assessment Verification System	2013
D-0850	Network-Enabled Weather Information System.....	2013
D-1530	Spatial Weather Prediction Models for the 4D Weather Cube.....	2013
D-1550	Augmentation Strategy for GNSS.....	2013
D-2127	3D RNAV/RNP Procedures.....	2013

DOD

D-2110	Environmental Metrics of New and Alternative Vehicle Classes	2015
D-2121	NextGen ALS	2017
PI-0009	National Integrated Surveillance Plan.....	2008
PI-0030	Safety Management Requirements.....	2008
PI-0031	Safety National Leadership Organization.....	2008
PI-0033	National Aviation Safety Strategic Plan (NASSP).....	2008
PI-0010	National Surveillance Strategy	2009
PI-0088	Federal vs. Private Role In Weather Services.....	2009
PI-0008	General Aviation Benefits	2010
PI-0012	Surveillance - Global Harmonization.....	2010
PI-0022	GPS Policy to Support Civil NextGen PNT Requirements	2010
PI-0098	Non-Cooperative Target Support	2010
PI-0115	NextGen Safety Assessment/Certification - Synchronization of Aircraft and ANS Capabilities	2010
PI-0116	NextGen Safety Assessment/Certification - Standards and Tools	2010
PI-0117	NextGen Safety Assessment/Certification - Resources	2010
PI-0032	Government-Wide Safety Information Sharing	2011
PI-0089	Weather Avoidance Decision Making.....	2011
PI-0092	Network-Enabled Aviation Safety Information Sharing Environment - Stakeholders	2011
PI-0110	International Commercial Space Operations	2011
PI-0113	Environmental Impact Modeling and Assessment	2011
PI-0047	Role of Federal Government in Conversion of Former Military Air Bases to Civil Aviation Use.....	2012
PI-0071	Defense System Standards - Global Harmonization	2012
PI-0072	Use of Unmanned Aircraft for Security Missions.....	2012
PI-0073	Frequency/Spectrum - Global Harmonization	2012
PI-0086	Weather Information Policy - Global Harmonization	2012
PI-0109	Environmental Technologies Development	2012
PI-0077	High Density Operations - Flight Prioritization	2014
PI-0002	NextGen Facilities	2015

DOD-FAA

Alignment as SOPR	IOC/IA Date
EN-1049 Integrated Surveillance Information Service Level 1.....	2012
EN-1510 Integrated Surveillance Information Service Level 2.....	2015
EN-1511 Integrated Surveillance Information Service Level 3.....	2020
EN-1512 Integrated Surveillance Information Service Level 4.....	2025

DOE

Alignment as SOCR	IOC/IA Date
OI-6017 Increased Use of Alternative Aviation Fuels.....	2015
EN-6010 Available Alternative Fuels - Level 1	2008
EN-6049 Available Alternative Fuels - Level 2	2009
EN-6050 Available Alternative Fuels - Level 3	2013
EN-6051 Available Alternative Fuels - Level 4	2015
R-2124 Applied Research on Ultra-Low Sulfur Conventional Jet Fuels.....	2009
R-0740 Applied Research on "Drop-in" Alternative Aviation Fuels	2012
D-2139 ULS Conventional Jet Fuels	2009

DOE

D-0750 "Drop-In" Alternative Aviation Fuels	2013
---	------

DOJ

Alignment as SOCR		IOC/IA Date
EN-4202	Integrated and Secure Airport Voice/Data Network	2012
R-0180	Applied Research on Secure Information Exchanges at Command and Control Facilities	2010

DOS

Alignment as SOPR		IOC/IA Date
EN-1044	Space Based Navigation System - International GNSS	2018

DOT

Alignment as SOPR		IOC/IA Date
EN-1402	Integrated Surveillance Strategy.....	2008
EN-5053	Airport Intermodal Ground Access Mobility Systems	2014
R-1800	Applied Research on a Low Frequency GBNS	2012
Alignment as SOCR		IOC/IA Date
EN-1160	Space Based Navigation System - GPS Legacy	2008
EN-3018	Safety Management Requirements.....	2008
EN-3036	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2.....	2011
EN-1041	Space Based Navigation System - GPS Aviation Dual Frequency	2013
EN-3037	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3.....	2013
EN-3120	Integrated Safety Assurance and Risk Management - Level 2.....	2014
EN-1040	Space Based Navigation System - Galileo	2015
EN-1143	Ground Based Navigation System (GBNS) - eLORAN	2015
EN-3114	Participate Internationally in Aviation Forums	2016
EN-3115	Establish International Aviation Development Partnerships	2016
EN-3116	Support Execution of ICAO Global Aviation Safety Roadmap and Implementation Plan	2016
EN-1120	GBAS - Local Area Augmentation System (LAAS)	2017
EN-1044	Space Based Navigation System - International GNSS	2018
EN-1042	Space Based Navigation System - GPS Enhanced Accuracy/Integrity Monitoring	2020
EN-1101	Enhanced NextGen PNT Services	2025
R-0060	Applied Research on Intermodal Travel Behavior in High-Density Corridors	2010
R-0070	Applied Research on Optimizing Landside Design to Promote Passenger Movement.....	2010
R-0080	Applied Research of Best Management Practices for Regional System Planning	2010
R-0090	Applied Research on Industry Standards for Intermodal Travel Planning.....	2012
R-1810	Applied Research on a Low Cost Inertial Navigation System (INS)	2012
D-0160	SMS Standard.....	2008
D-1830	National PNT Architecture Strategy.....	2010
D-2119	Passenger Information System for Intermodel Travel Planning.....	2011
D-1550	Augmentation Strategy for GNSS.....	2013

EPA

Alignment as SOCR	IOC/IA Date
OI-6017 Increased Use of Alternative Aviation Fuels.....	2015
EN-6010 Available Alternative Fuels - Level 1	2008
EN-6013 NextGen Environmental Protection Goals - Level 1 Initial	2008
EN-6022 Science and Metrics of Noise - Level 1 Baseline.....	2008
EN-6023 Science and Metrics of Local Emissions - Level 1 Baseline	2008
EN-6024 Environmental Tradeoffs and Metrics of Fuel Burn – Level 1 Baseline	2008
EN-6049 Available Alternative Fuels - Level 2	2009
EN-6006 Baseline of Required Water Pollution Mitigation Needs	2011
EN-6032 Science and Metrics of Noise - Level 2 Advanced.....	2011
EN-6034 Environmental Tradeoffs and Metrics of Fuel Burn - Level 2 Enhanced.....	2011
EN-6039 Enhanced Global Climate Metrics	2011
EN-6041 NextGen Environmental Protection Goals - Level 2 Refined.....	2011
EN-6053 Science of Global Climate - Level 2 Advanced	2011
EN-6050 Available Alternative Fuels - Level 3	2013
EN-6018 Enhanced Environmental Information	2015
EN-6051 Available Alternative Fuels - Level 4	2015
EN-6054 Enhanced Water Pollution Mitigation.....	2016
R-0200 Applied Research on Noise and Emissions Relationship Science and Models	2011
R-1760 Applied Research on the Methodologies and Metrics to Assess Climate Change Impacts	2011
R-0760 Applied Research on Water Pollution Impacts and Mitigation Options	2012
R-1330 Applied Research on Noise and Emissions Analysis Tools	2013
R-1780 Applied Research on Tools and Metrics to Model the Impacts of Emissions.....	2013
D-2141 Methodologies and Metrics to Assess Aviation's Impact on Climate Change	2011
PI-0102 Initial NextGen Long-Term Environmental Goals and Targets	2008
PI-0114 Environmental Standards - Global Harmonization	2010
PI-0105 Refined NextGen Long-Term Environmental Targets	2011

EUROCONTROL

Alignment as SOPR	IOC/IA Date
EN-1040 Space Based Navigation System - Galileo	2015

FAA

Alignment as SOPR	IOC/IA Date
OI-0318 Arrival Time-Based Metering - Controller Advisories.....	2008
OI-0319 Time-Based Metering into En Route Streams	2008
OI-0344 Reduced Oceanic Separation - 30 Miles for Pair-Wise Maneuvers.....	2009
OI-0309 Use Optimized Profile Descent.....	2010
OI-0311 Increased Capacity and Efficiency Using RNAV and RNP.....	2010
OI-0347 Air Traffic Control Surveillance Service in Non-Radar Areas (ADS-B)	2011
OI-6014 Implement EMS Framework - Level 1.....	2011
OI-0316 Enhanced Visual Separation for Successive Approaches.....	2012
OI-0320 Initial Surface Traffic Management	2012
OI-4501 Improved Security Restricted Airspace Planning/Management - Level 1 Pre-Defined.....	2012
OI-0304 Flexible Entry Times for Oceanic Tracks.....	2013

FAA

OI-0310	Improved GA Access to Traverse Terminal Areas	2013
OI-0400	Wake Turbulence Mitigation: Departures - Wind-Based Wake Procedures	2013
OI-0408	Provide Full Flight Plan Constraint Evaluation with Feedback	2013
OI-0303	TMI with Flight-Specific Trajectories.....	2014
OI-0305	Continuous Flight Day Evaluation.....	2014
OI-0321	Enhanced Surface Traffic Operations	2014
OI-0325	Time-Based Metering Using RNP and RNAV Route Alignment.....	2014
OI-0326	Airborne Merging and Spacing - Single Runway	2014
OI-0349	Automation Support for Mixed Environments.....	2014
OI-0352	Automated Clearance Delivery and Frequency Changes	2014
OI-0353	Reduced Oceanic Separation - Altitude Change Pair-Wise Maneuvers.....	2014
OI-0356	Delegated Separation - Pair-Wise Maneuvers	2014
OI-3004	Improved Operational Processes Using the Safety Management System (SMS)	2014
OI-3101	Enhanced Safety Information Analysis and Sharing	2014
OI-0307	Integrated Arrival/Departure Airspace Management	2015
OI-0329	Airborne Merging and Spacing with OPD	2015
OI-0351	Flexible Airspace Management.....	2015
OI-0354	Reduced Oceanic Separation - Co-Altitude Pair-Wise Maneuvers	2015
OI-0355	Delegated Responsibility for Horizontal Separation.....	2015
OI-0361	Resource Planning	2015
OI-0401	Wake Turbulence Mitigation: Arrivals - Wind-Based Wake Procedures.....	2015
OI-4511	Improved Security Restricted Airspace Planning/Management - Level 2 Integration.....	2015
OI-5000	Airport Preservation	2015
OI-6005	Environmentally and Energy Favorable En Route Operations - Level 1	2015
OI-6008	Environmentally and Energy Favorable Terminal Operations - Level 1.....	2015
OI-6012	Implement NextGen Environmental Engine and Aircraft Technologies - Level 1.....	2015
OI-6017	Increased Use of Alternative Aviation Fuels.....	2015
OI-0330	Time-Based and Metered Routes with OPD	2016
OI-0332	Ground-Based and On-Board Runway Incursion Alerting	2016
OI-0333	Improved Operations to Closely Spaced Parallel Runways	2016
OI-3102	Improved Safety for NextGen Evolution	2016
OI-0322	Low-Visibility Surface Operations	2017
OI-0334	Independent Converging Approaches in IMC	2017
OI-0337	Flow Corridors - Level 1 Static.....	2017
OI-0381	GBAS Precision Approaches	2017
OI-0306	Provide Interactive Flight Planning from Anywhere	2018
OI-0327	Surface Management - Arrivals/Winter Ops/Runway Configuration	2018
OI-0331	Integrated Arrival/Departure and Surface Operations	2018
OI-0338	Efficient Metroplex Merging and Spacing	2018
OI-0358	Trajectory Flight Data Management.....	2018
OI-0402	Wake Turbulence Mitigation: Departures - Dynamic Wind Procedures.....	2018
OI-0409	Net-Centric Virtual Facility	2018
OI-6020	Implement EMS Framework - Level 2.....	2018
OI-0343	Reduced Separation - High Density En Route, 3-mile	2019
OI-0350	Flexible Routing.....	2019
OI-0406	NAS Wide Sector Demand Prediction and Resource Planning.....	2019
OI-0317	Near Zero Ceiling/Visibility Airport Access	2020

FAA

OI-0341	Limited Simultaneous Runway Occupancy	2020
OI-0360	Automation-Assisted Trajectory Negotiation	2020
OI-0403	Wake Turbulence Mitigation: Arrivals - Dynamic Wind Procedures	2020
OI-0410	Automated Virtual Towers	2020
OI-3106	Increased International Cooperation for Aviation Safety	2020
OI-3107	Improved Safety Across Air Transportation System Boundaries	2020
OI-3108	Improved SMS Standards and Effectiveness.....	2020
OI-3109	Increased Safety Information Sharing and Analysis Scope and Effectiveness.....	2020
OI-6021	Environmentally and Energy Favorable Terminal Operations - Level 2.....	2020
OI-6022	Environmentally and Energy Favorable En Route Operations - Level 2	2020
OI-0339	Integrated Arrival/Departure and Surface Traffic Management for Metroplex.....	2022
OI-0359	Self-Separation Airspace - Oceanic.....	2022
OI-0362	Self-Separation Airspace Operations	2022
OI-0366	Dynamic Airspace Reclassification.....	2023
OI-0368	Flow Corridors - Level 2 Dynamic	2024
OI-0369	Automated Negotiation/Separation Management	2024
OI-0340	Near-Zero-Visibility Surface Operations	2025
OI-0348	Reduce Separation - High Density Terminal, Less Than 3-miles	2025
OI-0363	Delegated Separation - Complex Procedures	2025
OI-0370	Trajectory-Based Management - Full Gate-To-Gate	2025
OI-4512	Improved Security Restricted Airspace Planning/Management - Level 3 Flight Risk	2025
EN-0202	Avionics - Traffic Display Level 1 Cockpit Display of Traffic Information (CDTI).....	2008
EN-0203	Avionics - Traffic Collision and Avoidance System - Level 1	2008
EN-1018	Cooperative Surveillance - Legacy Mode S	2008
EN-1019	Cooperative Surveillance - Legacy ATCBI-6	2008
EN-1020	Non-Cooperative Surveillance Legacy ASR-8	2008
EN-1021	Non-Cooperative Surveillance - Legacy ASR-9	2008
EN-1022	Air Surveillance - Legacy ASR-11	2008
EN-1024	Cooperative Surveillance - PRM Level 1	2008
EN-1025	Airport Surface Surveillance - Legacy ASDE-X.....	2008
EN-1032	Radio-Based Voice Network - Legacy VHF/UHF.....	2008
EN-1035	Ground Voice Network- (Legacy Voice Communications).....	2008
EN-1039	GBNS - DME Legacy	2008
EN-1045	Space Based Augmentation System - WAAS	2008
EN-1060	Radio Data Link - Legacy 1090/1030	2008
EN-1065	Ground Based Navigation System (GBNS) - Lighting Systems (Legacy)	2008
EN-1144	Ground Based Navigation System (GBNS) - ILS Legacy	2008
EN-1180	Ground Integrated Voice/Data Network - Level 1	2008
EN-1190	Radio Data Link - Legacy General Aviation UAT.....	2008
EN-1700	Cooperative Surveillance - ADS-C	2008
EN-1750	Radio Data Link: Legacy Satcom	2008
EN-3016	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 1	2008
EN-3017	Safety Information Analysis Tools - Level 1	2008
EN-3018	Safety Management Requirements.....	2008
EN-6000	Environmental Management Strategy	2008
EN-6001	EMS Framework - Level 1 Development.....	2008
EN-6010	Available Alternative Fuels - Level 1	2008

FAA

EN-6012	Baseline Environmental Condition - Level 1	2008
EN-6013	NextGen Environmental Protection Goals - Level 1 Initial	2008
EN-6022	Science and Metrics of Noise - Level 1 Baseline.....	2008
EN-6023	Science and Metrics of Local Emissions - Level 1 Baseline	2008
EN-6024	Environmental Tradeoffs and Metrics of Fuel Burn – Level 1 Baseline.....	2008
EN-6038	Science of Global Climate - Level 1 Baseline	2008
EN-0160	Oceanic Web Enabled Collaborative Trajectory Planning	2009
EN-0161	Oceanic Trajectory - 4DT En Route	2009
EN-0170	SUA Management Decision Support - Level 1.....	2009
EN-0201	Avionics - RNP.....	2009
EN-1404	Cooperative Surveillance - PRM Level 2.....	2009
EN-1405	Cooperative Surveillance (Multilateration).....	2009
EN-2700	Weather Information Regulatory Structure.....	2009
EN-6002	EMS Framework - Level 2 Pilot	2009
EN-6016	EMS Outreach Program.....	2009
EN-6049	Available Alternative Fuels - Level 2	2009
EN-0016	Separation/Trajectory Management Detail Operational Concept	2010
EN-1023	Cooperative Surveillance - ADS-B Out Level 1	2010
EN-1033	Fixed Radio - Data Communications Level 1.....	2010
EN-1250	Information Sharing Standards: Flow Information	2010
EN-1251	Information Sharing Standards: Flight and Surveillance Information.....	2010
EN-1252	Information Sharing Standards: Airspace Information	2010
EN-1253	Information Sharing Standards: Aviation Safety Information	2010
EN-3024	Advanced Incident Contributing Factor Analysis	2010
EN-3025	Automated Prognostic Risk Identification.....	2010
EN-3040	National SMS Standard Implementation - Level 1	2010
EN-5033	Identification of Constrained Airports and Regions	2010
EN-6020	Environmentally Improved Surface Operations - Level 1 - Initial	2010
EN-0007	High-Density Arrival/Departure Detail Operational Concept	2011
EN-0019	Virtual Tower - Detail Operational Concept	2011
EN-0023	Surface Movement - Detail Operational Concept	2011
EN-0028	Avionics - Access to Airspace Boundary Information	2011
EN-0100	Surface Movement Decision Support - Level 1 Initial	2011
EN-0162	Development of Flexible Oceanic Entry Points	2011
EN-0204	Avionics - Traffic Collision and Avoidance System - Level 2	2011
EN-0206	Consolidated Aeronautical Information - Level 1 Network-Enabled Legacy.....	2011
EN-0210	Flexible Routing Flight Plan Automation - Operator.....	2011
EN-1002	Non-Cooperative Surveillance - GSE	2011
EN-1231	NextGen Enterprise Network - FAA	2011
EN-1270	Flow Information Services - FAA Group 1	2011
EN-1271	Flight and Surveillance Information Services - FAA Group 1.....	2011
EN-1272	Aeronautical Information Services (AIS) - FAA Group 1.....	2011
EN-1273	NextGen Weather Information Services - FAA Group 1	2011
EN-2680	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 1	2011
EN-3023	Automated System Vulnerability Detection.....	2011
EN-3036	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2.....	2011
EN-3119	Integrated Safety Assurance and Risk Management - Level 1.....	2011

FAA

EN-6006	Baseline of Required Water Pollution Mitigation Needs	2011
EN-6011	Environmental Impact Modeling and Assessment - Level 1	2011
EN-6027	EMS Framework - Level 3 Ongoing Improvements.....	2011
EN-6032	Science and Metrics of Noise - Level 2 Advanced.....	2011
EN-6033	Science and Metrics of Local Emissions - Level 2 Advanced	2011
EN-6034	Environmental Tradeoffs and Metrics of Fuel Burn - Level 2 Enhanced.....	2011
EN-6039	Enhanced Global Climate Metrics	2011
EN-6041	NextGen Environmental Protection Goals - Level 2 Refined.....	2011
EN-6053	Science of Global Climate - Level 2 Advanced	2011
EN-0039	UAS Detail Operation Concept.....	2012
EN-0150	Wake Vortex Configuration Advisory Decision Support - Level 1 Static Drift Only	2012
EN-0301	Performance-Based Separation Standards and Procedures	2012
EN-1005	Cooperative Surveillance - Ground Equipment	2012
EN-1006	Integrated Cooperative Surveillance Information - Level 1	2012
EN-1010	Future Radio Spectrum.....	2012
EN-1036	Ground Voice Network - NAS Voice Switch Level 1	2012
EN-1062	Mobile Data Communications Management Applications - Level 1	2012
EN-1203	Air - Ground Data Exchange - Data Communications Management Services - Tower.....	2012
EN-1206	Air - Ground Data Exchange – Clearance and Instruction Services – Tower Group 1.....	2012
EN-1215	Air - Ground Data Exchange – FIS – Tower	2012
EN-2220	Network-Enabled Weather Observation System - Ground-Based Level 1	2012
EN-2230	Network-Enabled Weather Observation System - Airborne Level 1 - Major Carriers	2012
EN-2470	Weather Information - Wake Vortex - Level 1	2012
EN-3041	National SMS Standard Implementation- Level 2	2012
EN-4510	Security Airspace Planning and Management - Level 1	2012
EN-5012	Airport Rescue Fire Fighting.....	2012
EN-5041	Regional Planning Processes.....	2012
EN-0008	Trajectory Negotiation - Level 1 Controlled Time of Arrival (CTA)	2013
EN-0031	Avionics - Airborne Merging and Spacing	2013
EN-0033	Airspace/Capacity/Flow Contingency Management Decision Support - Level 1	2013
EN-0034	Trajectory Management Decision Support - Level 1	2013
EN-0035	Separation Management Decision Support - Level 1.....	2013
EN-0110	Trajectory Negotiation - Level 2 En Route Time-Based Metering	2013
EN-0171	SUA Management Decision Support - Level 2.....	2013
EN-0207	Consolidated Aeronautical Information - Level 2 Integrated Status.....	2013
EN-0212	Parameter Driven Aircraft Separation Standards and Procedures.....	2013
EN-2060	Legacy Weather Applications Integrated with Network-enabled Weather Information	2013
EN-3037	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3	2013
EN-3038	Safety Information Analysis Tools - Level 2	2013
EN-5000	Airport Advocacy Program.....	2013
EN-5001	Airport-Compatible Land Use	2013
EN-5014	Runway Friction - Ground-Based Sensors and Technology	2013
EN-5045	Airport Protection Surfaces	2013
EN-6007	Environmentally Improved Airframe and Engine Technology - Level 1 (N+1).....	2013
EN-6050	Available Alternative Fuels - Level 3	2013
EN-0002	Network-Enabled Flight Object Information.....	2014
EN-0004	4D Flight Plan Automation - ANSP	2014

FAA

EN-0005	4D Flight Plan Automation - Operator	2014
EN-0006	4D Flight Plan Management Decision Support - Level 1	2014
EN-0029	Wake Detection/Prediction w/Dynamic Wake Spacing - Level 1 Wake Drift.....	2014
EN-0151	Wake Vortex Configuration Advisory Decision Support - Level 2 Dynamic Drift.....	2014
EN-0168	In-Trail Oceanic Separation Using ADS-C.....	2014
EN-0169	In-Trail Oceanic Separation Using ADS-B.....	2014
EN-1204	Air - Ground Data Exchange – Data Communications Management Services – En Route	2014
EN-1209	Air - Ground Data Exchange – Clearance and Instructions Services – En Route Group 1	2014
EN-1216	Air - Ground Data Exchange – FIS – En Route	2014
EN-1220	Air - Ground Data Exchange – Advisory Services – En Route Group 1.....	2014
EN-1401	Backup Surveillance System.....	2014
EN-1500	Cooperative Surveillance - ADS-B Out Level 2	2014
EN-3039	Safety Information Analysis Tools - Level 3	2014
EN-3105	Increase Data Access for Safety Risk Management	2014
EN-3107	Advanced Capabilities for Integrated, Predictive Safety Assessment	2014
EN-3108	Enhanced Focus on Safe Operational Procedures.....	2014
EN-3109	Advanced Training Concepts for Safe System Operation	2014
EN-3120	Integrated Safety Assurance and Risk Management - Level 2.....	2014
EN-4511	Security Airspace Planning and Management - Level 2	2014
EN-5003	Obstruction Measurement and Evaluation Process	2014
EN-0020	Staffed Virtual Tower Capability	2015
EN-0021	Automated Virtual Tower - Level 1 Single Runway Airport	2015
EN-0026	Surface Movement Decision Support - Level 2 Mid Term.....	2015
EN-0300	Networked Air Navigation Support Facilities	2015
EN-1037	Ground Voice Network - NAS Voice Switch Level 2	2015
EN-1506	Integrated Cooperative Surveillance Information - Level 2.....	2015
EN-3068	Improve Operational Decision Aids - Ground Level 1.....	2015
EN-3070	Ensure Ground-based System Conformance to Operations Requirements - Level 1	2015
EN-3072	Increase Ground-based System Contribution to Survival in Crash Scenarios - Level 1	2015
EN-3121	Integrated Safety Assurance and Risk Management - Level 3.....	2015
EN-5008	Ground Congestion Data Feed to Airport Acceptance Rate.....	2015
EN-5013	Runway Friction - Integrated Condition Reporting.....	2015
EN-5022	Deicing/Anti-Icing Holdover Time Input to Flight Object	2015
EN-5026	Design Guidelines for NextGen Airport Passenger Terminal Buildings	2015
EN-6004	Environmentally Improved Terminal Area Navigation - Level 1 Tools	2015
EN-6005	Environmentally Improved En Route Air Navigation -Level 1 Route Planning/Selection	2015
EN-6008	Avionics to Reduce Environmental Impacts - Level 1	2015
EN-6018	Enhanced Environmental Information	2015
EN-6035	Environmentally Improved Aircraft Airframe and Engines - Level 1	2015
EN-6046	Environmentally Improved Surface Operations - Level 2 - Enhanced	2015
EN-6047	Baseline Environmental Condition - Level 2	2015
EN-6051	Available Alternative Fuels - Level 4	2015
EN-0022	Automated Virtual Tower - Level 2 Multiple Runway Airport.....	2016
EN-0030	Wake Detection/Prediction w/Dynamic Wake Spacing - Level 2 Wake Drift/Decay.....	2016
EN-0152	Wake Vortex Configuration Advisory Decision Support - Level 3 Dynamic Drift/Decay.....	2016
EN-2221	Network-Enabled Weather Observation System - Ground-Based Level 2	2016
EN-2231	Network-Enabled Weather Observation System - Airborne Level 2 - High-End Aircraft	2016

FAA

EN-2461	Weather Forecasts - Environment - Level 2.....	2016
EN-2471	Weather Information - Wake Vortex - Level 2	2016
EN-3114	Participate Internationally in Aviation Forums	2016
EN-3115	Establish International Aviation Development Partnerships	2016
EN-3116	Support Execution of ICAO Global Aviation Safety Roadmap and Implementation Plan	2016
EN-3118	Improve the Implementation of Harmonized Standards, Regulations, and Procedures	2016
EN-3129	Harmonize Standards, Regulations and Procedures	2016
EN-5023	Advanced De-Icing/Anti-Icing Fluid Recovery	2016
EN-5024	Water Quality Management.....	2016
EN-5043	Parallel Runway Separation Distance Standards	2016
EN-6054	Enhanced Water Pollution Mitigation.....	2016
EN-0101	Avionics - Enhanced Obstacle Detection	2017
EN-1063	Mobile Data Communications Management Applications - Level 2	2017
EN-1120	GBAS - Local Area Augmentation System (LAAS)	2017
EN-1181	Ground Integrated Voice/Data Network - Level 2	2017
EN-1205	Air - Ground Data Exchange – Data Communications Management Services – TRACON	2017
EN-1207	Air - Ground Data Exchange – Clearance and Instruction Services – Tower Group 2.....	2017
EN-1212	Air - Ground Data Exchange – Clearance and Instructions Services – TRACON Group 1.....	2017
EN-1213	Air - Ground Data Exchange – Clearance and Instructions Services – TRACON Group 2.....	2017
EN-1217	Air - Ground Data Exchange – FIS – TRACON	2017
EN-1219	Air - Ground Data Exchange – Advisory Services – Tower	2017
EN-1223	Air - Ground Data Exchange – Advisory Services – TRACON.....	2017
EN-2681	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 2.....	2017
EN-5047	Airfield Design Standards	2017
EN-0003	4D Flight Plan Management Decision Support - Level 2.....	2018
EN-0017	Trajectory Negotiation - Level 3 Automation-Assisted 4DTs	2018
EN-0027	Metroplex Flow Management Decision Support	2018
EN-0036	Airspace/Capacity/Flow Contingency Management Decision Support - Level 2 Limited Dynamic	2018
EN-0037	Trajectory Management Decision Support - Level 2	2018
EN-0038	Separation Management Decision Support - Level 2.....	2018
EN-1048	Ground Voice Network - NAS Voice Switch Level 3	2018
EN-1066	Ground Based Navigation System (GBNS) - NextGen Lighting Systems	2018
EN-1210	Air - Ground Data Exchange - Clearance and Instructions Services - En Route Group 2	2018
EN-1221	Air - Ground Data Exchange – Advisory Services – En Route Group 2.....	2018
EN-1224	Air - Ground Data Exchange – Flight Position Intent Services – Multi Domain.....	2018
EN-3101	Safety Policy Effectiveness	2018
EN-3102	Safety Risk Management Processes and Tools	2018
EN-3103	Safety Assurance Processes and Tools	2018
EN-3104	Safety Promotion Practices.....	2018
EN-3106	Increase Confidence in Analytical Results	2018
EN-5016	Ice-Resistant Pavement Surfaces.....	2018
EN-6030	Environmentally Improved En Route Air Navigation -Level 2 Dynamic Routing	2018
EN-6042	Environmentally Improved Terminal Area Navigation - Level 2 Automation/Mechanisms.....	2018
EN-6044	Avionics to Reduce Environmental Impacts - Level 2	2018
EN-6048	Environmental Impact Modeling and Assessment - Level 2.....	2018
EN-2070	Aircraft Systems - Aircraft-Aircraft Hazardous Weather Information Sharing.....	2019
EN-0018	Trajectory Negotiation - Level 4 Automated 4DTs.....	2020

FAA

EN-1501	Cooperative Surveillance - ADS-B Out Level 3	2020
EN-1507	Integrated Cooperative Surveillance Information - Level 3	2020
EN-2222	Network-Enabled Weather Observation System - Ground-Based Level 3	2020
EN-2232	Network-Enabled Weather Observation System - Airborne Level 3 - UAS	2020
EN-2462	Weather Forecasts - Environment - Level 3.....	2020
EN-2472	Weather Information - Wake Vortex - Level 3	2020
EN-5032	Streamlined Airport Development Processes	2020
EN-5035	Post-Implementation Evaluations of Airport Development Actions.....	2020
EN-6043	Environmentally Improved Terminal Area Navigation - Level 3 Dynamic Information	2020
EN-6045	Avionics to Reduce Environmental Impacts - Level 3	2020
EN-2682	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 3.....	2021
EN-0009	Integrated Trajectory/Separation Management - Terminal	2022
EN-0180	Airspace/Capacity/Flow Contingency Management Decision Support - Level 3 Dynamic.....	2022
EN-1061	Fixed Radio - Data Communications Level 2.....	2022
EN-1064	Mobile Data Communications Management Applications - Level 3	2022
EN-1208	Air - Ground Data Exchange – Clearance and Instruction Services – Tower Group 3.....	2022
EN-1211	Air - Ground Data Exchange - Clearance and Instructions Services - En Route Group 3	2022
EN-1214	Air - Ground Data Exchange – Clearance and Instructions Services – TRACON Group 3.....	2022
EN-1225	Air - Ground Data Exchange – Delegated Separation Services – Multi Domain.....	2022
EN-1170	Integrated Ground and Air Network for Voice/Data	2025
EN-1502	Cooperative Surveillance - ADS-B Out Level 4	2025
EN-1508	Integrated Cooperative Surveillance Information - Level 4	2025
EN-3067	Improved Ground-Based Systems Health Management - Level 2	2025
EN-3069	Improve Operational Decision Aids - Ground Level 2.....	2025
EN-3071	Ensure Ground-based System Conformance to Operations Requirements - Level 2	2025
EN-3073	Increase Ground-based System Contribution to Survival in Crash Scenarios - Level 2	2025
EN-4512	Security Airspace Planning and Management - Level 3	2025
R-2122	Applied Research on System Risk Assessment and Management Models	2008
R-0040	Applied Research on Critical NextGen Aircraft Capabilities	2009
R-2124	Applied Research on Ultra-Low Sulfur Conventional Jet Fuels.....	2009
R-0050	Applied Research on Sustainable Environmental Ramp Operations	2010
R-0060	Applied Research on Intermodal Travel Behavior in High-Density Corridors	2010
R-0080	Applied Research of Best Management Practices for Regional System Planning	2010
R-0100	Applied Research on Accuracy and Resolution Requirements for NextGen Weather Forecasts.....	2010
R-0110	Applied Research on the Integration of Forecast and Observational Data	2010
R-0130	Applied Research on Automation-Assisted Collaboration Capabilities.....	2010
R-0140	Applied Research on 4DT Use in Clearances and Flight Plans.....	2010
R-0230	Applied Research on Facility-Independent Techniques for Networked Facility Operations.....	2010
R-0270	Applied Research on a National Surveillance and Communications Needs Assessment	2010
R-1260	Applied Research on Risk-reducing Systems Interfaces, Procedures, and Training.....	2010
R-1750	Applied Research on the Policy and Procedures to Reduce Aviation Environmental Impact	2010
R-2121	Applied Research of Human Performance Models	2010
R-0200	Applied Research on Noise and Emissions Relationship Science and Models	2011
R-0310	Basic Research on Airport System Evolution in Large Metropolitan Areas	2011
R-0340	Applied Research on 3D RNAV/RNP Procedures.....	2011
R-0370	Applied Research on Traffic Spacing Management in Terminal and Transition Airspace	2011
R-0470	Applied Research on Radio Spectrum Needs and Alternatives.....	2011

FAA

R-1760	Applied Research on the Methodologies and Metrics to Assess Climate Change Impacts	2011
R-2112	Applied Research on Weather Integration into NextGen Decision Making.....	2011
R-2114	Applied Research on Improved Weather Sensing and Forecasting Models	2011
R-0580	Applied Research for Initial Probabilistic Weather Forecasts	2012
R-0590	Applied Research on Optimizing Visual Flight Rule (VFR) Operations	2012
R-0630	Applied Research on Effective Surface Management in Various Weather Conditions	2012
R-0660	Applied Research on Integrating NextGen Information into an Automated Environment	2012
R-0670	Applied Research on Applying "Control by Points" TMI	2012
R-0680	Applied Research on the Methodologies for Dynamically Allocating NAS Resources	2012
R-0690	Applied Research on an ATS Safety Baseline.....	2012
R-0740	Applied Research on "Drop-in" Alternative Aviation Fuels	2012
R-0760	Applied Research on Water Pollution Impacts and Mitigation Options	2012
R-0770	Applied Research on Dynamically Allocating National Airspace System (NAS) Demand	2012
R-0780	Applied Research of Air Navigation Service Providers (ANSP) Roles and Responsibilities	2012
R-0800	Applied Research on Certification Methods, Requirements, and Equipment Standards.....	2012
R-2138	Applied Research on Human Error Using Automated Systems	2012
R-0860	Applied Research on Hazard Information Exchange using Aircraft Sensor Technology.....	2013
R-0960	Applied Research on 4D Trajectory Evaluation, Planning, Presentation and Negotiation	2013
R-1040	Applied Research on the Virtual Tower Capability.....	2013
R-1050	Applied Research on Airspace Assignment Methods	2013
R-1060	Applied Research on NextGen Team Size Optimization	2013
R-1330	Applied Research on Noise and Emissions Analysis Tools	2013
R-1590	Applied Research for Required Oceanic Flight Profile Information.....	2013
R-1780	Applied Research on Tools and Metrics to Model the Impacts of Emissions.....	2013
R-2118	Applied Research on NextGen Lighting Systems.....	2013
R-1460	Applied Research on Common NextGen Automation Platform.....	2014
R-1580	Applied Research on an Airborne Collision Avoidance System	2014
R-1230	Applied Research on Weather and Wake Impacts for En Route Operations.....	2015
R-1340	Applied Research on Aviation Procedures to Reduce Environmental Impacts	2015
R-1370	Applied Research on the Operational Concept for UASs in Trajectory-Based Airspace	2015
R-0600	Applied Research on Assessing and Predicting Wake Severity	2016
R-1600	Applied Research on Aircraft-Based CNS Technologies in Self-Separation Airspace	2016
R-1630	Applied Research on Flow Corridor Operational Concepts.....	2016
R-1390	Applied Research on Off-Airport Passenger and Baggage Processing.....	2017
R-2128	Applied Research on Integrated Voice/Data and Air/Ground Network Communications.....	2023
D-0160	SMS Standard.....	2008
D-2179	Enhanced Ground-Based Weather Sensors.....	2008
D-2191	Enhanced Airborne-Based Weather Sensors	2008
D-0010	Coordination and Dissemination Requirements for SUAs	2009
D-0030	Planning, Collaboration, and Coordination Functions for Airspace Security	2009
D-2139	ULS Conventional Jet Fuels	2009
D-2151	Prognostic Risk Management Tools	2009
D-0150	Collaborative Negotiation Capabilities for Expanded Oceanic Track Entry Points	2010
D-0170	Safety Information Sharing Environment.....	2010
D-0240	Facility and Networking Alternatives	2010
D-0830	Trajectory Negotiation Protocols for Air and Ground Information Architectures	2010
D-1420	Business Continuity Requirements for Networked Facilities	2010

FAA

D-1820	Foreign GNSS Usage Strategy.....	2010
D-2115	Initial Probabilistic Weather Forecasts.....	2010
D-0330	Aircraft-Based Precision Approach Capability	2011
D-0360	Requirements for Taxi Instructions Submission.....	2011
D-0400	Time-Based Metering of Flows Transitioning into High-Density Terminal Areas	2011
D-0420	NAS-Wide Aggregate Flow Models.....	2011
D-1560	Flight Risk Assessment Algorithms	2011
D-2141	Methodologies and Metrics to Assess Aviation's Impact on Climate Change	2011
D-0250	PNT Complementary and Backup System Strategy	2012
D-0480	Reduced Oceanic Separation Standards and Procedures.....	2012
D-0490	5nm Non-Radar Separation Standards and Procedures	2012
D-0520	Trajectory Prediction Methodologies for New Vehicle Classes	2012
D-1640	Wind-Dependent Wake Vortex Arrival Procedures and Tools	2012
D-1700	System Risk Assessment and Management Models	2012
D-2147	Airborne Collision Avoidance Back-up System.....	2012
D-0750	"Drop-In" Alternative Aviation Fuels	2013
D-0870	Mixed Equipage Trajectory-Based Routes and Advanced OPD Operations	2013
D-0880	Terminal and Surface Low Visibility ConOps.....	2013
D-0920	Traffic Spacing Management Components in Terminal and Transition Airspace	2013
D-1010	NextGen Vehicle Technologies	2013
D-1020	NextGen (N+1) EMS Analysis Tools	2013
D-1550	Augmentation Strategy for GNSS.....	2013
D-1730	Aircraft Procedures and Control Technologies to Reduce Environmental Impacts.....	2013
D-1740	Environmental Impact Management Capability	2013
D-2100	Complex System Validation and Verification Tools and Techniques	2013
D-2127	3D RNAV/RNP Procedures.....	2013
D-1090	Dynamic Airspace Reconfiguration	2014
D-1200	Guidance for Trajectory-Based Procedures	2015
D-1210	Technologies and Procedures for Dynamically Adjusting Airspace Structures	2015
D-1220	Development of Weather Hazard Severity Indices	2015
D-1250	Safe Taxi Operations in Low Visibility Conditions	2015
D-1360	Virtual Tower Capability	2015
D-1680	Advanced Wake Sensing Capabilities.....	2015
D-1710	Risk Reducing Interfaces, Procedures, and Training	2015
D-2110	Environmental Metrics of New and Alternative Vehicle Classes	2015
D-0890	Dynamic Wake Management for Single Runway Operations	2016
D-2121	NextGen ALS	2017
D-2137	Performance Requirements for Aircraft-Based CNS Technologies in Self Separation Airspace	2020
PI-0009	National Integrated Surveillance Plan	2008
PI-0030	Safety Management Requirements.....	2008
PI-0031	Safety National Leadership Organization.....	2008
PI-0033	National Aviation Safety Strategic Plan (NASSP).....	2008
PI-0101	Initial Aviation Environmental Policy	2008
PI-0102	Initial NextGen Long-Term Environmental Goals and Targets	2008
PI-0104	Initial EMS Approach	2008
PI-0010	National Surveillance Strategy	2009
PI-0014	Aircraft Equipage Implementation Policy	2009

FAA

PI-0021	Protection of Data Shared Over-The-Air	2009
PI-0087	Weather Information Policy - Use of Single Authoritative Source in ATM Decisions	2009
PI-0088	Federal vs. Private Role In Weather Services.....	2009
PI-0006	Balance of Human vs. Automation	2010
PI-0008	General Aviation Benefits	2010
PI-0012	Surveillance - Global Harmonization.....	2010
PI-0022	GPS Policy to Support Civil NextGen PNT Requirements	2010
PI-0114	Environmental Standards - Global Harmonization	2010
PI-0115	NextGen Safety Assessment/Certification - Synchronization of Aircraft and ANS Capabilities	2010
PI-0116	NextGen Safety Assessment/Certification - Standards and Tools	2010
PI-0117	NextGen Safety Assessment/Certification - Resources	2010
PI-0032	Government-Wide Safety Information Sharing	2011
PI-0044	Airport Land Banking	2011
PI-0045	Airport Ground Transportation Access	2011
PI-0089	Weather Avoidance Decision Making.....	2011
PI-0092	Network-Enabled Aviation Safety Information Sharing Environment - Stakeholders	2011
PI-0105	Refined NextGen Long-Term Environmental Targets	2011
PI-0106	Evolved EMS Approach	2011
PI-0110	International Commercial Space Operations	2011
PI-0113	Environmental Impact Modeling and Assessment	2011
PI-0038	Small-Hub, Non-Hub, Non-Primary, General Aviation and Reliever Airport Finance	2012
PI-0039	Hazards to Air Navigation Enforcement Policy	2012
PI-0046	Role of the Federal Government in Airport Capacity Enhancements	2012
PI-0047	Role of Federal Government in Conversion of Former Military Air Bases to Civil Aviation Use.....	2012
PI-0048	Airport Preservation	2012
PI-0072	Use of Unmanned Aircraft for Security Missions.....	2012
PI-0073	Frequency/Spectrum - Global Harmonization	2012
PI-0086	Weather Information Policy - Global Harmonization	2012
PI-0103	Refined Aviation Environmental Policy	2012
PI-0107	Intermodal Safety Management Integration.....	2012
PI-0109	Environmental Technologies Development.....	2012
PI-0001	Airport Operation Centers (AOC) Equipage Implementation Policy.....	2013
PI-0004	ATM Automation Development, Performance and Interoperability Standards	2013
PI-0036	Airport Advocacy Program.....	2013
PI-0037	Airport-Compatible Land Use	2013
PI-0065	Airspace Regulatory Changes - Global Harmonization	2013
PI-0069	Congestion Management Program.....	2013
PI-0075	PNT Services - Global Harmonization	2013
PI-0082	Oceanic Airspace Policy	2013
PI-0077	High Density Operations - Flight Prioritization	2014
PI-0002	NextGen Facilities	2015
PI-0112	Dynamic Environmental Management Systems Approach.....	2015
PI-0094	Aviation Safety - Global Harmonization	2016
PI-0007	Rules of the Road	2018

FAA

Alignment as SOCR	IOC/IA Date
OI-0346 Improved Management of Airspace for Special Use	2012
OI-2010 Net-Enabled Common Weather Information Infrastructure.....	2013
OI-2020 Net-Enabled Common Weather Information - Level 1 Initial Capability	2013
OI-4500 Integrated Flight Risk Management and Risk Mitigation - Level 1 Static.....	2014
OI-4520 Integrated Risk-Based Planning and Management of Security Resources	2014
OI-2021 Net-Enabled Common Weather Information - Level 2 Adaptive Control/Enhanced Forecast	2018
OI-4601 External Aircraft/UAS Threat Protection.....	2018
OI-4521 Integrated Command/Control for Security Incident Response and Recovery	2021
OI-6023 Implement NextGen Environmental Engine and Aircraft Technologies - Level 2.....	2021
OI-2022 Net-Enabled Common Weather Information - Level 3 Full NextGen.....	2022
OI-0365 Advanced Management of Airspace for Special Use.....	2023
OI-3103 Improved Safety of Operational Decision Making.....	2025
OI-3104 Enhanced Safety of Airborne Systems	2025
OI-3105 Enhanced Safety of Ground-based Systems.....	2025
OI-4502 Integrated Flight Risk Management and Risk Mitigation - Level 2 Dynamic	2025
EN-1017 Non-Cooperative Surveillance Legacy LRR	2008
EN-1160 Space Based Navigation System - GPS Legacy	2008
EN-1402 Integrated Surveillance Strategy.....	2008
EN-1229 Enterprise Networking Governance Model	2009
EN-2040 NextGen Net-Enabled Virtual 4D Weather Cube Governance Structure	2009
EN-2210 Network-Enabled Weather Observation Strategy	2009
EN-2710 NextGen Net-Enabled Virtual Four-Dimensional (4D) Weather Cube Governance Model	2009
EN-4119 Biometrics and Credential Standards with Airport Access Focus	2009
EN-1230 Enterprise Networking Governance Structure	2010
EN-1406 Airport Surveillance Video.....	2010
EN-2050 Information Sharing Standards: Weather Information	2010
EN-2080 Network-Enabled User-Defined Weather Information Request Function	2010
EN-2270 Integrated Observation Governance Structure	2010
EN-3027 Improved Fault Management	2010
EN-0102 Avionics - Moving Map Display	2011
EN-1015 Enterprise Network Management Standards	2011
EN-1016 Enterprise Networks Infrastructure Services Standards	2011
EN-1043 Enterprise Networks Security Services Standards	2011
EN-1003 Non-Cooperative Surveillance Information Service	2012
EN-2260 Network-Enabled Weather Observation System - Integrated Level 1.....	2012
EN-2410 Weather Forecasts - Consolidated Convective Storm - Level 1	2012
EN-2420 Weather Forecasts - Consolidated Icing - Level 1	2012
EN-2430 Weather Forecasts - Consolidated Turbulence - Level 1	2012
EN-2440 Weather Forecasts - Consolidated Ceiling and Visibility - Level 1.....	2012
EN-2520 Weather Forecasts - Consolidated Winter Storm - Level 1.....	2012
EN-3050 Advanced Complex System Validation and Verification Methods	2012
EN-4500 Flight Risk Management System - Level 1 Static.....	2012
EN-4520 Integrated Risk Management (IRM) System	2012
EN-4601 Aircraft Hijack/Unauthorized Diversion Technologies and Procedures	2012
EN-4602 Aircraft Threat Containment and Survivability Hardening.....	2012

FAA

EN-1041	Space Based Navigation System - GPS Aviation Dual Frequency	2013
EN-2010	NextGen 4D Weather Cube Information - Level 1 Initial Operating Capability	2013
EN-2500	Improve Weather Models - Level 1.....	2013
EN-5053	Airport Intermodal Ground Access Mobility Systems	2014
EN-1040	Space Based Navigation System - Galileo	2015
EN-1143	Ground Based Navigation System (GBNS) - eLORAN	2015
EN-2250	Network-Enabled Weather Observation System - Adaptive Control.....	2015
EN-3054	Improved Reliability and Airworthiness of Aircraft - Level 1.....	2015
EN-3056	Improved Vehicle Systems Health Management - Level 1.....	2015
EN-3110	Ensure the Availability and Accessibility of Required Information	2015
EN-3130	Increased Crash Survivability - Aircraft Structures & Components.....	2015
EN-3131	Increased Crash Survivability- Aircraft Fire Prevention & Suppression.....	2015
EN-4208	Airport CBRNE Detection Systems	2015
EN-5021	Ground Based Non-Fluid De-Icing Technology	2015
EN-2261	Network-Enabled Weather Observation System - Integrated Level 2.....	2016
EN-2411	Weather Forecasts - Consolidated Convective Storm - Level 2	2016
EN-2421	Weather Forecasts - Consolidated Icing - Level 2	2016
EN-2431	Weather Forecasts - Consolidated Turbulence - Level 2	2016
EN-2441	Weather Forecasts - Consolidated Ceiling and Visibility - Level 2.....	2016
EN-2451	Weather Forecasts - Volcanic Ash - Level 2.....	2016
EN-2481	Weather Forecasts - Space - Level 2.....	2016
EN-2521	Weather Forecasts - Consolidated Winter Storm - Level 2.....	2016
EN-4307	Baggage/Cargo Screening Technology - Integrated Screening System.....	2016
EN-4521	Flight Risk Management System - Level 2 Dynamic	2016
EN-4600	Aircraft Security Systems and Policies.....	2016
EN-2501	Improve Weather Models - Level 2.....	2017
EN-4610	Aircraft External Threat Defense/Mitigation Systems	2017
EN-1044	Space Based Navigation System - International GNSS	2018
EN-2020	NextGen 4D Weather Cube Information - Level 2 Adaptive Control/Enhanced Forecasts	2018
EN-2810	Aircraft Systems - Turbulence Mitigation.....	2018
EN-2820	Aircraft Systems - Icing Alleviation.....	2018
EN-2830	Aircraft Systems - Low Visibility Alleviation	2018
EN-2840	Aircraft Systems - Vortex Avoidance Alleviation	2018
EN-2850	Aircraft Systems - Radiation Alleviation	2018
EN-2860	Aircraft Systems - Volcanic Ash Alleviation	2018
EN-2870	Aircraft Systems - Weather Mitigation Requirements	2018
EN-5020	Advanced De-Icing/Anti-Ice Fluids	2018
EN-6036	Environmentally Improved Airframe and Engine Technology - Level 2 (N+2).....	2018
EN-1042	Space Based Navigation System - GPS Enhanced Accuracy/Integrity Monitoring	2020
EN-2262	Network-Enabled Weather Observation System - Integrated Level 3.....	2020
EN-2412	Weather Forecasts - Consolidated Convective Storm - Level 3	2020
EN-2422	Weather Forecasts - Consolidated Icing - Level 3	2020
EN-2432	Weather Forecasts - Consolidated Turbulence - Level 3	2020
EN-2442	Weather Forecasts - Consolidated Ceiling and Visibility - Level 3.....	2020
EN-2452	Weather Forecasts - Volcanic Ash - Level 3	2020
EN-2482	Weather Forecasts - Space - Level 3.....	2020
EN-2522	Weather Forecasts - Consolidated Winter Storm - Level 3.....	2020

FAA

EN-4250	Airport Surveillance, Tracking and Detection System - Level 2	2020
EN-4522	Unified National Aviation Command, Control and Communication Architecture.....	2020
EN-6037	Environmentally Improved Aircraft Airframe and Engines - Level 2.....	2021
EN-0032	Avionics - Airborne Self-Separation	2022
EN-2030	NextGen 4D Weather Cube Information - Level 3 Full NextGen.....	2022
EN-1101	Enhanced NextGen PNT Services	2025
EN-3055	Improved Reliability and Airworthiness of Aircraft - Level 2.....	2025
EN-3126	Improved Aircraft Upset Prevention and Recovery.....	2025
R-0020	Applied Research on Vulnerability Discovery.....	2009
R-0070	Applied Research on Optimizing Landside Design to Promote Passenger Movement.....	2010
R-0120	Applied Research on Low-Visibility and Surface Operation Technologies.....	2010
R-0180	Applied Research on Secure Information Exchanges at Command and Control Facilities.....	2010
R-2130	Applied Research on Risk-Reducing Systems Interfaces, Procedures, and Training.....	2010
R-0350	Applied Research on Air and Ground-Based Runway Incursion Detection Technologies	2011
R-0410	Applied Research on the Integration of Arrival/Departure and Surface Operations	2011
R-1430	Applied Research on Human/Automation Roles in High-Density Surface Operations	2011
R-1520	Applied Research on the Role of Human Forecasters and Automated Systems	2011
R-1620	Applied Research on Spacing Management in Congested En Route Airspace	2011
R-0090	Applied Research on Industry Standards for Intermodal Travel Planning.....	2012
R-0500	Applied Research on Variable Separation Standards.....	2012
R-0510	Applied Research on Air and Ground Separation Management Architectures	2012
R-0530	Applied Research on Automated Air and Ground Separation Management Alternatives	2012
R-0540	Applied Research on Flexible Airspace Design Configurations.....	2012
R-0610	Applied Research on Safe Taxi Operations in Low Visibility Conditions	2012
R-0640	Applied Research on Metroplex Throughput Optimization	2012
R-0790	Applied Research for a National Surveillance Architecture.....	2012
R-0810	Applied Research on Noise, Emissions, and Performance Trade-offs for N+1 Aircraft.....	2012
R-1440	Applied Research on Complex Systems Validation and Verification	2012
R-1800	Applied Research on a Low Frequency GBNS	2012
R-1810	Applied Research on a Low Cost Inertial Navigation System (INS)	2012
R-0820	Applied Research for Required Aircraft 4DT Intent Data	2013
R-0910	Applied Research on Optimizing Overlapping Runway Occupancies	2013
R-0930	Applied Research on Low Visibility Independent Parallel and Converging Approach Procedures	2013
R-0940	Applied Research on the Roles and Responsibilities in a Shared Information Environment	2013
R-0950	Applied Research on Net-Centric Stakeholder Access to NextGen Information.....	2013
R-1030	Applied Research on Environmental Metrics for New and Alternative Vehicle Classes	2013
R-1080	Applied Research on the Service Benefits and Costs for NextGen Aircraft Capabilities	2013
R-1120	Applied Research on Automated Flight and Flow Evaluation and Resolution Capabilities.....	2014
R-1130	Applied Research on an Automated Capacity Management Capability	2014
R-1170	Applied Research on Flight Risk Assessment Algorithms	2014
R-1190	Applied Research on Certification Methods, Requirements, and Standards for UASs.....	2014
R-1240	Applied Research on Low Visibility Dependent Multiple Approach Procedures	2015
R-1270	Applied Research on Advanced Materials and Design for New Aircraft	2015
R-1410	Applied Research on Noise, Emissions, and Performance Trade-offs for N+2 Aircraft	2018
R-1450	Applied Research into Generation After Next (N+2) Vehicle Technologies	2018
R-1570	Applied Research on Overland Supersonic Cruise Aircraft	2018
D-2117	Network-Enabled Weather Data Standards	2009

FAA

D-2131	Required Oceanic Flight Profile Information	2009
D-0260	Development of NextGen Interagency NCI Requirements	2010
D-2193	Enhanced Space-Based Weather Sensors.....	2010
D-0320	Adaptive Weather Observation Capabilities	2011
D-2113	Operating Procedures for Human Forecasters using Automated Systems	2011
D-2119	Passenger Information System for Intermodel Travel Planning.....	2011
D-2133	Air and Ground-based Runway Incursion Detection Technology	2011
D-2135	Air and Ground Separation Management Architecture	2011
D-0560	Airport Information Architecture	2012
D-0730	Security Incident Management System	2012
D-2125	Situational Awareness Technologies in Low-Visibility and Surface Operations	2012
D-2129	Required Aircraft 4DT Intent Data	2012
D-2145	Vulnerability Detection Tools	2012
D-0840	Weather Forecast Assessment Verification System	2013
D-0850	Network-Enabled Weather Information System.....	2013
D-0970	Real-Time Airport Intruder Identification and Tracking System.....	2013
D-1070	Development of NextGen Interagency Net-Centric Security Requirements	2013
D-1180	Aircraft Explosives Detection and Mitigation	2014
D-1320	Missile Defense Systems for Commercial Aircraft	2015
PI-0024	Secure Information Exchange	2008
PI-0108	Certifying Use of Net-Centric Information.....	2008
PI-0120	PNT Performance Requirements	2008
PI-0017	Communications Architecture Plan for Ground, Space, Airborne, and/or Performance-Based Architectures..	2009
PI-0005	Public Acceptance of Automation	2010
PI-0079	Global Security	2010
PI-0111	Airport Security Governance.....	2011
PI-0071	Defense System Standards - Global Harmonization.....	2012
PI-0097	Airport Emergency Response	2012

FBI

Alignment as SOCR	IOC/IA Date
R-0180 Applied Research on Secure Information Exchanges at Command and Control Facilities.....	2010

Industry

Alignment as SOPR	IOC/IA Date
OI-3103 Improved Safety of Operational Decision Making.....	2025
OI-3104 Enhanced Safety of Airborne Systems	2025
OI-3105 Enhanced Safety of Ground-based Systems.....	2025
EN-1201 Mobile Radio - Data Communications Level 1.....	2009
EN-1400 Cooperative Surveillance - ADS-B IN/TIS-B/FIS-B Level 1.....	2010
EN-1406 Airport Surveillance Video.....	2010
EN-4210 Airport Command, Control, and Communications Center Architecture	2010
EN-5007 Zero or Low-Emissions Ground Support Equipment.....	2010
EN-0102 Avionics - Moving Map Display	2011
EN-0200 Avionics - Traffic Display Level 2	2011
EN-1007 Avionics - Trajectory Management - Advanced Surface Operations.....	2012

Industry	
EN-3030	Standards Harmonization for Multi-mode Transport of Dangerous Goods
EN-4312	Baggage/Cargo Screening Technology - Threat Containment.....
EN-4401	Certified Supply Chain Entity
EN-4403	Secure Supply Chain Entity
EN-5004	Airport GSE Surface Management System.....
EN-5009	Airside Resource Management System - Level 1
EN-5010	Landside Resource Management System - Level 1
EN-5017	Airport Winter Operations Resource Management System - Level 1
EN-5029	Intermodal Ground Transportation Information System
EN-5030	Remote Check-In Processing Systems
EN-0106	Avionics - Delegated Separation Acknowledgement Information
EN-1503	Cooperative Surveillance - ADS-B IN/TIS-B/FIS-B Level 2.....
EN-3042	National SMS Standard Implementation- Level 3
EN-5011	Airport Resource Management System - Level 1
EN-5015	Aircraft Systems - Runway Friction Sensors and Technology.....
EN-0103	Avionics - Trajectory Management - Arrival/Departure
EN-3054	Improved Reliability and Airworthiness of Aircraft - Level 1.....
EN-3056	Improved Vehicle Systems Health Management - Level 1.....
EN-3058	Increased Reliability and Accuracy of Data and Information - Level 1.....
EN-3060	Improved Operational Decision Aids - Airborne Level 1
EN-3062	Ensure Aircraft Conformance to More Stringent Operations Requirements - Level 1
EN-3064	Increase Aircraft System Contributions to Survival in Crash Scenarios - Level 1
EN-3110	Ensure the Availability and Accessibility of Required Information
EN-3111	Increase the Usefulness and Understandability of Information
EN-3112	Maintain Appropriate Human Engagement
EN-3122	Reduced Controlled Flight into Terrain - Level 1.....
EN-3127	Reduce Airborne Icing-Related Incidents - Level 1
EN-3130	Increased Crash Survivability - Aircraft Structures & Components
EN-3131	Increased Crash Survivability- Aircraft Fire Prevention & Suppression.....
EN-3132	Reduce Ground Icing-Related Incidents - Level 1
EN-5021	Ground Based Non-Fluid De-Icing Technology
EN-5052	Ramp Lightning Detection and Deflection
EN-0109	Avionics - Surface Conflict Management
EN-4116	Off Airport Passenger and Baggage Security Screening (RTSS)
EN-2810	Aircraft Systems - Turbulence Mitigation
EN-2820	Aircraft Systems - Icing Alleviation.....
EN-2830	Aircraft Systems - Low Visibility Alleviation
EN-2840	Aircraft Systems - Vortex Avoidance Alleviation
EN-2850	Aircraft Systems - Radiation Alleviation
EN-2860	Aircraft Systems - Volcanic Ash Alleviation
EN-2870	Aircraft Systems - Weather Mitigation Requirements
EN-5020	Advanced De-Icing/Anti-Ice Fluids
EN-5217	Airport Winter Operations Resource Management System - Level 2
EN-1504	Cooperative Surveillance - ADS-B IN/TIS-B/FIS-B Level 3.....
EN-5019	Aircraft Systems - Ground Icing Detection
EN-5209	Airside Resource Management System - Level 2
EN-5210	Landside Resource Management System - Level 2.....

Industry		
		IOC/IA Date
EN-5211	Airport Resource Management System - Level 2	2020
EN-0032	Avionics - Airborne Self-Separation	2022
EN-1202	Mobile Radio - Data Communications Level 2.....	2022
EN-5018	Aircraft Systems - De-Ice/Anti-Ice Technology.....	2024
EN-3055	Improved Reliability and Airworthiness of Aircraft - Level 2.....	2025
EN-3057	Improved Vehicle Systems Health Management - Level 2.....	2025
EN-3059	Increased Reliability and Accuracy of Data and Information - Level 2.....	2025
EN-3061	Improved Operational Decision Aids - Airborne Level 2	2025
EN-3063	Ensure Aircraft Conformance to More Stringent Operations Requirements - Level 2	2025
EN-3065	Increase Aircraft System Contributions to Survival in Crash Scenarios- Level 2.....	2025
EN-3113	Improve Reliability and Airworthiness of Aircraft	2025
EN-3123	Airborne Weather Information Technologies- Level 1.....	2025
EN-3124	Reduced Controlled Flight into Terrain - Level 2.....	2025
EN-3125	Airborne Weather Information Technologies- Level 2.....	2025
EN-3126	Improved Aircraft Upset Prevention and Recovery.....	2025
EN-3128	Reduce Airborne Icing-Related Incidents - Level 2	2025
EN-3133	Reduce Ground Icing-Related Incidents - Level 2	2025
R-0070	Applied Research on Optimizing Landside Design to Promote Passenger Movement.....	2010
R-0090	Applied Research on Industry Standards for Intermodal Travel Planning.....	2012
R-0990	Applied Research on Aircraft Support Systems	2013
R-1150	Applied Research on Airframe and Aircraft System Weather Mitigation Technique Benefits	2014
R-2126	Applied Research on Airframe Designs to Accelerate Wake Vortex Decay	2017
D-2119	Passenger Information System for Intermodel Travel Planning.....	2011
D-0560	Airport Information Architecture	2012
D-2155	Availability and Accessibility of Required Information Design Guidelines	2012
D-2157	Usefulness and Understandability of Information Design Guidelines.....	2012
D-2159	Appropriate Human Engagement Design Guidelines	2012
D-2161	Operational Decision Aids Design Guidelines.....	2012
D-2163	Reliability and Airworthiness of Aircraft Design Guidelines	2012
D-2165	Vehicle Systems Health Management Design Guidelines.....	2012
D-2167	Reliability and Accuracy of Data and Information Design Guidelines.....	2012
D-2169	Aircraft Conformance to Operations Requirements Design Guidelines	2012
D-2171	Aircraft System Contributions to Survival in Crash Scenarios Design Guidelines	2012
D-2173	Ground-Based Systems Health Management Design Guidelines	2012
D-2175	Ground-Based System Conformance Design Guidelines	2012
D-2177	Ground-Based System Contribution to Survival in Crash Scenarios Design Guidelines	2012
D-2123	Aircraft Systems Weather Mitigation Requirements	2016
PI-0005	Public Acceptance of Automation	2010
Alignment as SOCR		IOC/IA Date
OI-0344	Reduced Oceanic Separation - 30 Miles for Pair-Wise Maneuvers.....	2009
OI-6014	Implement EMS Framework - Level 1	2011
OI-0408	Provide Full Flight Plan Constraint Evaluation with Feedback	2013
OI-5006	Coordinated Ramp Operations Management.....	2014
OI-5012	Airport Intermodal Ground Access	2015
OI-6005	Environmentally and Energy Favorable En Route Operations - Level 1	2015
OI-6008	Environmentally and Energy Favorable Terminal Operations - Level 1.....	2015
OI-6012	Implement NextGen Environmental Engine and Aircraft Technologies - Level 1.....	2015

Industry	
OI-6017	Increased Use of Alternative Aviation Fuels.....
OI-0332	Ground-Based and On-Board Runway Incursion Alerting
OI-5014	Efficient Passenger Flows In Terminal Buildings.....
OI-5015	Off-Airport Passenger and Baggage Processing.....
OI-6020	Implement EMS Framework - Level 2.....
OI-5003	Improved Strategic Management of Existing Infrastructure (Landside)
OI-6021	Environmentally and Energy Favorable Terminal Operations - Level 2.....
OI-6022	Environmentally and Energy Favorable En Route Operations - Level 2
OI-4107	Improved Passenger Checkpoint Screening - Level 2
OI-4521	Integrated Command/Control for Security Incident Response and Recovery
OI-6023	Implement NextGen Environmental Engine and Aircraft Technologies - Level 2.....
OI-5008	Advanced Weather Capability for Airside Facilities
EN-3018	Safety Management Requirements.....
EN-6001	EMS Framework - Level 1 Development.....
EN-6010	Available Alternative Fuels - Level 1
EN-6013	NextGen Environmental Protection Goals - Level 1 Initial
EN-6022	Science and Metrics of Noise - Level 1 Baseline.....
EN-6023	Science and Metrics of Local Emissions - Level 1 Baseline
EN-6024	Environmental Tradeoffs and Metrics of Fuel Burn – Level 1 Baseline
EN-4119	Biometrics and Credential Standards with Airport Access Focus.....
EN-6002	EMS Framework - Level 2 Pilot
EN-6016	EMS Outreach Program.....
EN-6049	Available Alternative Fuels - Level 2
EN-3027	Improved Fault Management
EN-4311	Cargo & Mail Screening - National Standards.....
EN-6020	Environmentally Improved Surface Operations - Level 1 - Initial
EN-0204	Avionics - Traffic Collision and Avoidance System - Level 2
EN-0210	Flexible Routing Flight Plan Automation - Operator.....
EN-3036	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2.....
EN-3119	Integrated Safety Assurance and Risk Management - Level 1.....
EN-4310	Cargo & Mail Screening - Requirements
EN-6011	Environmental Impact Modeling and Assessment - Level 1
EN-6027	EMS Framework - Level 3 Ongoing Improvements.....
EN-6032	Science and Metrics of Noise - Level 2 Advanced.....
EN-6033	Science and Metrics of Local Emissions - Level 2 Advanced
EN-6034	Environmental Tradeoffs and Metrics of Fuel Burn - Level 2 Enhanced.....
EN-6041	NextGen Environmental Protection Goals - Level 2 Refined.....
EN-1049	Integrated Surveillance Information Service Level 1.....
EN-4120	Integrated Passenger Screening, Credentialing and Risk Management System - Level 1
EN-4121	Integrated Passenger Screening, Credentialing and Risk Management System - Level 2
EN-4202	Integrated and Secure Airport Voice/Data Network
EN-4206	National Airport Emergency Response Protocol/Policies/Procedures
EN-4601	Aircraft Hijack/Unauthorized Diversion Technologies and Procedures
EN-4602	Aircraft Threat Containment and Survivability Hardening.....
EN-3037	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3.....
EN-5014	Runway Friction - Ground-Based Sensors and Technology
EN-6007	Environmentally Improved Airframe and Engine Technology - Level 1 (N+1).....

Industry	
EN-6050	Available Alternative Fuels - Level 3
EN-0168	In-Trail Oceanic Separation Using ADS-C.....
EN-0169	In-Trail Oceanic Separation Using ADS-B.....
EN-3105	Increase Data Access for Safety Risk Management
EN-3120	Integrated Safety Assurance and Risk Management - Level 2.....
EN-3121	Integrated Safety Assurance and Risk Management - Level 3.....
EN-4110	Checkpoint Screening Technology - Optimize Screening Infrastructure Requirements
EN-6004	Environmentally Improved Terminal Area Navigation - Level 1 Tools
EN-6005	Environmentally Improved En Route Air Navigation -Level 1 Route Planning/Selection
EN-6008	Avionics to Reduce Environmental Impacts - Level 1
EN-6018	Enhanced Environmental Information
EN-6035	Environmentally Improved Aircraft Airframe and Engines - Level 1
EN-6046	Environmentally Improved Surface Operations - Level 2 - Enhanced
EN-6051	Available Alternative Fuels - Level 4
EN-3114	Participate Internationally in Aviation Forums
EN-3115	Establish International Aviation Development Partnerships
EN-3116	Support Execution of ICAO Global Aviation Safety Roadmap and Implementation Plan
EN-3118	Improve the Implementation of Harmonized Standards, Regulations, and Procedures
EN-3129	Harmonize Standards, Regulations and Procedures
EN-4118	Checkpoint Screening Technology - Threat Containment.....
EN-4307	Baggage/Cargo Screening Technology - Integrated Screening System.....
EN-4600	Aircraft Security Systems and Policies.....
EN-6030	Environmentally Improved En Route Air Navigation -Level 2 Dynamic Routing
EN-6036	Environmentally Improved Airframe and Engine Technology - Level 2 (N+2).....
EN-6044	Avionics to Reduce Environmental Impacts - Level 2
EN-6048	Environmental Impact Modeling and Assessment - Level 2
EN-4522	Unified National Aviation Command, Control and Communication Architecture.....
EN-6045	Avionics to Reduce Environmental Impacts - Level 3
EN-6037	Environmentally Improved Aircraft Airframe and Engines - Level 2
R-0040	Applied Research on Critical NextGen Aircraft Capabilities
R-2124	Applied Research on Ultra-Low Sulfur Conventional Jet Fuels.....
R-0050	Applied Research on Sustainable Environmental Ramp Operations
R-0080	Applied Research of Best Management Practices for Regional System Planning
R-0130	Applied Research on Automation-Assisted Collaboration Capabilities.....
R-0310	Basic Research on Airport System Evolution in Large Metropolitan Areas
R-0510	Applied Research on Air and Ground Separation Management Architectures
R-0530	Applied Research on Automated Air and Ground Separation Management Alternatives
R-0630	Applied Research on Effective Surface Management in Various Weather Conditions
R-0740	Applied Research on "Drop-in" Alternative Aviation Fuels
R-0810	Applied Research on Noise, Emissions, and Performance Trade-offs for N+1 Aircraft.....
R-1440	Applied Research on Complex Systems Validation and Verification
R-1810	Applied Research on a Low Cost Inertial Navigation System (INS)
R-0930	Applied Research on Low Visibility Independent Parallel and Converging Approach Procedures
R-0960	Applied Research on 4D Trajectory Evaluation, Planning, Presentation and Negotiation
R-1080	Applied Research on the Service Benefits and Costs for NextGen Aircraft Capabilities
R-1120	Applied Research on Automated Flight and Flow Evaluation and Resolution Capabilities.....
R-1190	Applied Research on Certification Methods, Requirements, and Standards for UASs.....

Industry	
R-1340	Applied Research on Aviation Procedures to Reduce Environmental Impacts
R-1370	Applied Research on the Operational Concept for UASs in Trajectory-Based Airspace
R-1390	Applied Research on Off-Airport Passenger and Baggage Processing.....
R-1450	Applied Research into Generation After Next (N+2) Vehicle Technologies
R-1570	Applied Research on Overland Supersonic Cruise Aircraft.....
D-0160	SMS Standard.....
D-2139	ULS Conventional Jet Fuels
D-0150	Collaborative Negotiation Capabilities for Expanded Oceanic Track Entry Points
D-0830	Trajectory Negotiation Protocols for Air and Ground Information Architectures
D-0420	NAS-Wide Aggregate Flow Models.....
D-0440	Secure and Certified Supply Chain Entity.....
D-2135	Air and Ground Separation Management Architecture
D-0480	Reduced Oceanic Separation Standards and Procedures.....
D-0710	Baggage/Cargo/Mail Monitoring System.....
D-0730	Security Incident Management System
D-0750	"Drop-In" Alternative Aviation Fuels
D-0970	Real-Time Airport Intruder Identification and Tracking System.....
D-1010	NextGen Vehicle Technologies
D-1020	NextGen (N+1) EMS Analysis Tools
D-1730	Aircraft Procedures and Control Technologies to Reduce Environmental Impacts.....
D-2100	Complex System Validation and Verification Tools and Techniques
D-1680	Advanced Wake Sensing Capabilities.....
PI-0009	National Integrated Surveillance Plan.....
PI-0024	Secure Information Exchange
PI-0102	Initial NextGen Long-Term Environmental Goals and Targets
PI-0104	Initial EMS Approach
PI-0108	Certifying Use of Net-Centric Information.....
PI-0010	National Surveillance Strategy
PI-0014	Aircraft Equipage Implementation Policy
PI-0017	Communications Architecture Plan for Ground, Space, Airborne, and/or Performance-Based Architectures..
PI-0006	Balance of Human vs. Automation
PI-0008	General Aviation Benefits
PI-0095	National Security Policies for Passenger and Cargo Screening
PI-0096	Security Financing Responsibility for Passenger and Cargo Screening.....
PI-0099	Air Cargo and Mail Security Requirements
PI-0114	Environmental Standards - Global Harmonization
PI-0092	Network-Enabled Aviation Safety Information Sharing Environment - Stakeholders
PI-0105	Refined NextGen Long-Term Environmental Targets
PI-0106	Evolved EMS Approach
PI-0111	Airport Security Governance.....
PI-0113	Environmental Impact Modeling and Assessment
PI-0073	Frequency/Spectrum - Global Harmonization
PI-0107	Intermodal Safety Management Integration.....
PI-0109	Environmental Technologies Development.....
PI-0001	Airport Operation Centers (AOC) Equipage Implementation Policy.....
PI-0091	Airport Worker Vetting
PI-0100	Certified Supply Chain Entity (CSCE).....

Industry		
		IOC/IA Date
PI-0077	High Density Operations - Flight Prioritization	2014
PI-0112	Dynamic Environmental Management Systems Approach.....	2015
PI-0007	Rules of the Road	2018
Local Governments		
Alignment as SOCR		IOC/IA Date
EN-4206	National Airport Emergency Response Protocol/Policies/Procedures	2012
NASA		
Alignment as SOPR		IOC/IA Date
OI-6023	Implement NextGen Environmental Engine and Aircraft Technologies - Level 2.....	2021
EN-3027	Improved Fault Management	2010
EN-3050	Advanced Complex System Validation and Verification Methods	2012
EN-6036	Environmentally Improved Airframe and Engine Technology - Level 2 (N+2).....	2018
EN-6037	Environmentally Improved Aircraft Airframe and Engines - Level 2.....	2021
R-2132	Applied Research on Contributing Factor Analysis	2008
R-2134	Applied Research on Prognostic Risk Management	2008
R-2136	Applied Research on Fault Management	2008
R-0020	Applied Research on Vulnerability Discovery.....	2009
R-0120	Applied Research on Low-Visibility and Surface Operation Technologies.....	2010
R-2130	Applied Research on Risk-Reducing Systems Interfaces, Procedures, and Training.....	2010
R-0350	Applied Research on Air and Ground-Based Runway Incursion Detection Technologies	2011
R-0410	Applied Research on the Integration of Arrival/Departure and Surface Operations	2011
R-1430	Applied Research on Human/Automation Roles in High-Density Surface Operations	2011
R-1620	Applied Research on Spacing Management in Congested En Route Airspace	2011
R-0500	Applied Research on Variable Separation Standards.....	2012
R-0510	Applied Research on Air and Ground Separation Management Architectures	2012
R-0530	Applied Research on Automated Air and Ground Separation Management Alternatives	2012
R-0540	Applied Research on Flexible Airspace Design Configurations.....	2012
R-0610	Applied Research on Safe Taxi Operations in Low Visibility Conditions	2012
R-0640	Applied Research on Metroplex Throughput Optimization	2012
R-0810	Applied Research on Noise, Emissions, and Performance Trade-offs for N+1 Aircraft.....	2012
R-1440	Applied Research on Complex Systems Validation and Verification	2012
R-0820	Applied Research for Required Aircraft 4DT Intent Data.....	2013
R-0910	Applied Research on Optimizing Overlapping Runway Occupancies	2013
R-0930	Applied Research on Low Visibility Independent Parallel and Converging Approach Procedures	2013
R-1030	Applied Research on Environmental Metrics for New and Alternative Vehicle Classes	2013
R-1080	Applied Research on the Service Benefits and Costs for NextGen Aircraft Capabilities	2013
R-2116	Applied Research on Real-time Airport Gate Assignment	2013
R-1120	Applied Research on Automated Flight and Flow Evaluation and Resolution Capabilities.....	2014
R-1130	Applied Research on an Automated Capacity Management Capability	2014
R-1240	Applied Research on Low Visibility Dependent Multiple Approach Procedures	2015
R-1270	Applied Research on Advanced Materials and Design for New Aircraft	2015
R-1280	Applied Research on System Health Management	2015
R-1290	Applied Research for Upset Condition Prevention and Recovery	2015
R-1380	Applied Research on Rotorcraft Configurations	2015

NASA

R-1410	Applied Research on Noise, Emissions, and Performance Trade-offs for N+2 Aircraft	2018
R-1450	Applied Research into Generation After Next (N+2) Vehicle Technologies	2018
R-1570	Applied Research on Overland Supersonic Cruise Aircraft	2018
D-2131	Required Oceanic Flight Profile Information	2009
D-2149	Contributing Factor Analysis Tools	2009
D-2153	Fault Management Tools	2009
D-2113	Operating Procedures for Human Forecasters using Automated Systems	2011
D-2133	Air and Ground-based Runway Incursion Detection Technology	2011
D-2135	Air and Ground Separation Management Architecture	2011
D-2125	Situational Awareness Technologies in Low-Visibility and Surface Operations	2012
D-2129	Required Aircraft 4DT Intent Data	2012
D-2145	Vulnerability Detection Tools	2012

Alignment as SOCR	IOC/IA Date
-------------------	-------------

OI-0311	Increased Capacity and Efficiency Using RNAV and RNP	2010
OI-6014	Implement EMS Framework - Level 1	2011
OI-0316	Enhanced Visual Separation for Successive Approaches	2012
OI-0320	Initial Surface Traffic Management	2012
OI-0304	Flexible Entry Times for Oceanic Tracks	2013
OI-0400	Wake Turbulence Mitigation: Departures - Wind-Based Wake Procedures	2013
OI-0408	Provide Full Flight Plan Constraint Evaluation with Feedback	2013
OI-2020	Net-Enabled Common Weather Information - Level 1 Initial Capability	2013
OI-0303	TMI with Flight-Specific Trajectories	2014
OI-0305	Continuous Flight Day Evaluation	2014
OI-0321	Enhanced Surface Traffic Operations	2014
OI-0326	Airborne Merging and Spacing - Single Runway	2014
OI-0349	Automation Support for Mixed Environments	2014
OI-0353	Reduced Oceanic Separation - Altitude Change Pair-Wise Maneuvers	2014
OI-0356	Delegated Separation - Pair-Wise Maneuvers	2014
OI-3004	Improved Operational Processes Using the Safety Management System (SMS)	2014
OI-3101	Enhanced Safety Information Analysis and Sharing	2014
OI-5006	Coordinated Ramp Operations Management	2014
OI-0307	Integrated Arrival/Departure Airspace Management	2015
OI-0329	Airborne Merging and Spacing with OPD	2015
OI-0351	Flexible Airspace Management	2015
OI-0354	Reduced Oceanic Separation - Co-Altitude Pair-Wise Maneuvers	2015
OI-0355	Delegated Responsibility for Horizontal Separation	2015
OI-0361	Resource Planning	2015
OI-0401	Wake Turbulence Mitigation: Arrivals - Wind-Based Wake Procedures	2015
OI-5009	Improved Tactical Management of Airport Operations	2015
OI-5010	Advanced Winter Weather Operations - Level 1	2015
OI-6005	Environmentally and Energy Favorable En Route Operations - Level 1	2015
OI-6008	Environmentally and Energy Favorable Terminal Operations - Level 1	2015
OI-6012	Implement NextGen Environmental Engine and Aircraft Technologies - Level 1	2015
OI-6017	Increased Use of Alternative Aviation Fuels	2015
OI-0330	Time-Based and Metered Routes with OPD	2016
OI-0332	Ground-Based and On-Board Runway Incursion Alerting	2016
OI-0333	Improved Operations to Closely Spaced Parallel Runways	2016

NASA

OI-3102	Improved Safety for NextGen Evolution	2016
OI-0322	Low-Visibility Surface Operations	2017
OI-0334	Independent Converging Approaches in IMC	2017
OI-0337	Flow Corridors - Level 1 Static.....	2017
OI-0381	GBAS Precision Approaches	2017
OI-0306	Provide Interactive Flight Planning from Anywhere	2018
OI-0327	Surface Management - Arrivals/Winter Ops/Runway Configuration	2018
OI-0331	Integrated Arrival/Departure and Surface Operations.....	2018
OI-0338	Efficient Metroplex Merging and Spacing	2018
OI-0358	Trajectory Flight Data Management.....	2018
OI-0402	Wake Turbulence Mitigation: Departures - Dynamic Wind Procedures.....	2018
OI-0409	Net-Centric Virtual Facility	2018
OI-2021	Net-Enabled Common Weather Information - Level 2 Adaptive Control/Enhanced Forecast	2018
OI-6020	Implement EMS Framework - Level 2.....	2018
OI-0343	Reduced Separation - High Density En Route, 3-mile	2019
OI-0350	Flexible Routing.....	2019
OI-0406	NAS Wide Sector Demand Prediction and Resource Planning.....	2019
OI-0317	Near Zero Ceiling/Visibility Airport Access	2020
OI-0341	Limited Simultaneous Runway Occupancy	2020
OI-0360	Automation-Assisted Trajectory Negotiation	2020
OI-0403	Wake Turbulence Mitigation: Arrivals - Dynamic Wind Procedures	2020
OI-0410	Automated Virtual Towers	2020
OI-6021	Environmentally and Energy Favorable Terminal Operations - Level 2.....	2020
OI-6022	Environmentally and Energy Favorable En Route Operations - Level 2	2020
OI-0339	Integrated Arrival/Departure and Surface Traffic Management for Metroplex.....	2022
OI-0359	Self-Separation Airspace - Oceanic.....	2022
OI-0362	Self-Separation Airspace Operations	2022
OI-2022	Net-Enabled Common Weather Information - Level 3 Full NextGen.....	2022
OI-5008	Advanced Weather Capability for Airside Facilities	2022
OI-0365	Advanced Management of Airspace for Special Use.....	2023
OI-0366	Dynamic Airspace Reclassification	2023
OI-0368	Flow Corridors - Level 2 Dynamic	2024
OI-0340	Near-Zero-Visibility Surface Operations	2025
OI-0363	Delegated Separation - Complex Procedures	2025
OI-3103	Improved Safety of Operational Decision Making.....	2025
OI-3104	Enhanced Safety of Airborne Systems	2025
OI-3105	Enhanced Safety of Ground-based Systems.....	2025
EN-3016	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 1	2008
EN-3017	Safety Information Analysis Tools - Level 1	2008
EN-3018	Safety Management Requirements.....	2008
EN-6000	Environmental Management Strategy	2008
EN-6010	Available Alternative Fuels - Level 1	2008
EN-6012	Baseline Environmental Condition - Level 1	2008
EN-6013	NextGen Environmental Protection Goals - Level 1 Initial	2008
EN-6022	Science and Metrics of Noise - Level 1 Baseline.....	2008
EN-6023	Science and Metrics of Local Emissions - Level 1 Baseline	2008
EN-6024	Environmental Tradeoffs and Metrics of Fuel Burn – Level 1 Baseline	2008

NASA

EN-0161	Oceanic Trajectory - 4DT En Route	2009
EN-6049	Available Alternative Fuels - Level 2	2009
EN-0016	Separation/Trajectory Management Detail Operational Concept	2010
EN-2270	Integrated Observation Governance Structure	2010
EN-3024	Advanced Incident Contributing Factor Analysis	2010
EN-3025	Automated Prognostic Risk Identification	2010
EN-0019	Virtual Tower - Detail Operational Concept	2011
EN-0023	Surface Movement - Detail Operational Concept	2011
EN-0204	Avionics - Traffic Collision and Avoidance System - Level 2	2011
EN-0210	Flexible Routing Flight Plan Automation - Operator	2011
EN-2680	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 1	2011
EN-3023	Automated System Vulnerability Detection	2011
EN-3036	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 2	2011
EN-3119	Integrated Safety Assurance and Risk Management - Level 1	2011
EN-6011	Environmental Impact Modeling and Assessment - Level 1	2011
EN-6032	Science and Metrics of Noise - Level 2 Advanced	2011
EN-6033	Science and Metrics of Local Emissions - Level 2 Advanced	2011
EN-6034	Environmental Tradeoffs and Metrics of Fuel Burn - Level 2 Enhanced	2011
EN-6039	Enhanced Global Climate Metrics	2011
EN-6041	NextGen Environmental Protection Goals - Level 2 Refined	2011
EN-6053	Science of Global Climate - Level 2 Advanced	2011
EN-1007	Avionics - Trajectory Management - Advanced Surface Operations	2012
EN-2240	Network-Enabled Weather Observation System - Satellites Level 1	2012
EN-2260	Network-Enabled Weather Observation System - Integrated Level 1	2012
EN-2470	Weather Information - Wake Vortex - Level 1	2012
EN-3041	National SMS Standard Implementation- Level 2	2012
EN-0031	Avionics - Airborne Merging and Spacing	2013
EN-0034	Trajectory Management Decision Support - Level 1	2013
EN-0035	Separation Management Decision Support - Level 1	2013
EN-3037	Aviation Safety Information Analysis and Sharing Environment (ASIAS) - Level 3	2013
EN-3038	Safety Information Analysis Tools - Level 2	2013
EN-5004	Airport GSE Surface Management System	2013
EN-6007	Environmentally Improved Airframe and Engine Technology - Level 1 (N+1)	2013
EN-6050	Available Alternative Fuels - Level 3	2013
EN-0106	Avionics - Delegated Separation Acknowledgement Information	2014
EN-3039	Safety Information Analysis Tools - Level 3	2014
EN-3105	Increase Data Access for Safety Risk Management	2014
EN-3108	Enhanced Focus on Safe Operational Procedures	2014
EN-3109	Advanced Training Concepts for Safe System Operation	2014
EN-3120	Integrated Safety Assurance and Risk Management - Level 2	2014
EN-0020	Staffed Virtual Tower Capability	2015
EN-0021	Automated Virtual Tower - Level 1 Single Runway Airport	2015
EN-0103	Avionics - Trajectory Management - Arrival/Departure	2015
EN-2250	Network-Enabled Weather Observation System - Adaptive Control	2015
EN-3054	Improved Reliability and Airworthiness of Aircraft - Level 1	2015
EN-3056	Improved Vehicle Systems Health Management - Level 1	2015
EN-3058	Increased Reliability and Accuracy of Data and Information - Level 1	2015

NASA

EN-3060	Improved Operational Decision Aids - Airborne Level 1	2015
EN-3062	Ensure Aircraft Conformance to More Stringent Operations Requirements - Level 1	2015
EN-3064	Increase Aircraft System Contributions to Survival in Crash Scenarios - Level 1	2015
EN-3068	Improve Operational Decision Aids - Ground Level 1.....	2015
EN-3070	Ensure Ground-based System Conformance to Operations Requirements - Level 1	2015
EN-3072	Increase Ground-based System Contribution to Survival in Crash Scenarios - Level 1	2015
EN-3110	Ensure the Availability and Accessibility of Required Information	2015
EN-3121	Integrated Safety Assurance and Risk Management - Level 3.....	2015
EN-3130	Increased Crash Survivability - Aircraft Structures & Components	2015
EN-3131	Increased Crash Survivability- Aircraft Fire Prevention & Suppression.....	2015
EN-5008	Ground Congestion Data Feed to Airport Acceptance Rate.....	2015
EN-5021	Ground Based Non-Fluid De-Icing Technology	2015
EN-6004	Environmentally Improved Terminal Area Navigation - Level 1 Tools	2015
EN-6005	Environmentally Improved En Route Air Navigation -Level 1 Route Planning/Selection	2015
EN-6008	Avionics to Reduce Environmental Impacts - Level 1	2015
EN-6018	Enhanced Environmental Information	2015
EN-6035	Environmentally Improved Aircraft Airframe and Engines - Level 1.....	2015
EN-6047	Baseline Environmental Condition - Level 2	2015
EN-6051	Available Alternative Fuels - Level 4	2015
EN-0022	Automated Virtual Tower - Level 2 Multiple Runway Airport.....	2016
EN-0109	Avionics - Surface Conflict Management	2016
EN-2241	Network-Enabled Weather Observation System - Satellites Level 2	2016
EN-2261	Network-Enabled Weather Observation System - Integrated Level 2.....	2016
EN-2471	Weather Information - Wake Vortex - Level 2	2016
EN-3114	Participate Internationally in Aviation Forums	2016
EN-3115	Establish International Aviation Development Partnerships	2016
EN-3116	Support Execution of ICAO Global Aviation Safety Roadmap and Implementation Plan	2016
EN-5043	Parallel Runway Separation Distance Standards	2016
EN-2681	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 2	2017
EN-0017	Trajectory Negotiation - Level 3 Automation-Assisted 4DTs	2018
EN-2810	Aircraft Systems - Turbulence Mitigation	2018
EN-2820	Aircraft Systems - Icing Alleviation.....	2018
EN-2830	Aircraft Systems - Low Visibility Alleviation	2018
EN-2840	Aircraft Systems - Vortex Avoidance Alleviation	2018
EN-2850	Aircraft Systems - Radiation Alleviation	2018
EN-2860	Aircraft Systems - Volcanic Ash Alleviation	2018
EN-2870	Aircraft Systems - Weather Mitigation Requirements	2018
EN-3106	Increase Confidence in Analytical Results	2018
EN-5020	Advanced De-Icing/Anti-Ice Fluids	2018
EN-6030	Environmentally Improved En Route Air Navigation -Level 2 Dynamic Routing	2018
EN-6042	Environmentally Improved Terminal Area Navigation - Level 2 Automation/Mechanisms.....	2018
EN-6044	Avionics to Reduce Environmental Impacts - Level 2	2018
EN-6048	Environmental Impact Modeling and Assessment - Level 2	2018
EN-0018	Trajectory Negotiation - Level 4 Automated 4DTs.....	2020
EN-2242	Network-Enabled Weather Observation System - Satellites Level 3	2020
EN-2262	Network-Enabled Weather Observation System - Integrated Level 3.....	2020
EN-2472	Weather Information - Wake Vortex - Level 3	2020

NASA

EN-6043	Environmentally Improved Terminal Area Navigation - Level 3 Dynamic Information	2020
EN-6045	Avionics to Reduce Environmental Impacts - Level 3	2020
EN-2682	Methodologies and Algorithms for Weather Assimilation into Decision-Making - Level 3	2021
EN-0032	Avionics - Airborne Self-Separation	2022
EN-3055	Improved Reliability and Airworthiness of Aircraft - Level 2	2025
EN-3057	Improved Vehicle Systems Health Management - Level 2	2025
EN-3059	Increased Reliability and Accuracy of Data and Information - Level 2	2025
EN-3061	Improved Operational Decision Aids - Airborne Level 2	2025
EN-3063	Ensure Aircraft Conformance to More Stringent Operations Requirements - Level 2	2025
EN-3065	Increase Aircraft System Contributions to Survival in Crash Scenarios- Level 2	2025
EN-3067	Improved Ground-Based Systems Health Management - Level 2	2025
EN-3069	Improve Operational Decision Aids - Ground Level 2	2025
EN-3071	Ensure Ground-based System Conformance to Operations Requirements - Level 2	2025
EN-3073	Increase Ground-based System Contribution to Survival in Crash Scenarios - Level 2	2025
EN-3126	Improved Aircraft Upset Prevention and Recovery	2025
R-2122	Applied Research on System Risk Assessment and Management Models	2008
R-0040	Applied Research on Critical NextGen Aircraft Capabilities	2009
R-2124	Applied Research on Ultra-Low Sulfur Conventional Jet Fuels	2009
R-0130	Applied Research on Automation-Assisted Collaboration Capabilities	2010
R-0140	Applied Research on 4DT Use in Clearances and Flight Plans	2010
R-1260	Applied Research on Risk-reducing Systems Interfaces, Procedures, and Training	2010
R-1750	Applied Research on the Policy and Procedures to Reduce Aviation Environmental Impact	2010
R-2121	Applied Research of Human Performance Models	2010
R-0200	Applied Research on Noise and Emissions Relationship Science and Models	2011
R-0340	Applied Research on 3D RNAV/RNP Procedures	2011
R-0370	Applied Research on Traffic Spacing Management in Terminal and Transition Airspace	2011
R-2112	Applied Research on Weather Integration into NextGen Decision Making	2011
R-0580	Applied Research for Initial Probabilistic Weather Forecasts	2012
R-0590	Applied Research on Optimizing Visual Flight Rule (VFR) Operations	2012
R-0660	Applied Research on Integrating NextGen Information into an Automated Environment	2012
R-0670	Applied Research on Applying "Control by Points" TMI	2012
R-0680	Applied Research on the Methodologies for Dynamically Allocating NAS Resources	2012
R-0690	Applied Research on an ATS Safety Baseline	2012
R-0740	Applied Research on "Drop-in" Alternative Aviation Fuels	2012
R-0770	Applied Research on Dynamically Allocating National Airspace System (NAS) Demand	2012
R-2138	Applied Research on Human Error Using Automated Systems	2012
R-0960	Applied Research on 4D Trajectory Evaluation, Planning, Presentation and Negotiation	2013
R-1040	Applied Research on the Virtual Tower Capability	2013
R-1330	Applied Research on Noise and Emissions Analysis Tools	2013
R-1590	Applied Research for Required Oceanic Flight Profile Information	2013
R-1780	Applied Research on Tools and Metrics to Model the Impacts of Emissions	2013
R-1150	Applied Research on Airframe and Aircraft System Weather Mitigation Technique Benefits	2014
R-1190	Applied Research on Certification Methods, Requirements, and Standards for UASs	2014
R-1460	Applied Research on Common NextGen Automation Platform	2014
R-1340	Applied Research on Aviation Procedures to Reduce Environmental Impacts	2015
R-0600	Applied Research on Assessing and Predicting Wake Severity	2016
R-1600	Applied Research on Aircraft-Based CNS Technologies in Self-Separation Airspace	2016

NASA	
R-1630	Applied Research on Flow Corridor Operational Concepts
D-0160	SMS Standard.....
D-2139	ULS Conventional Jet Fuels
D-2151	Prognostic Risk Management Tools
D-0170	Safety Information Sharing Environment.....
D-0830	Trajectory Negotiation Protocols for Air and Ground Information Architectures
D-2115	Initial Probabilistic Weather Forecasts.....
D-0320	Adaptive Weather Observation Capabilities
D-0330	Aircraft-Based Precision Approach Capability
D-0360	Requirements for Taxi Instructions Submission.....
D-0420	NAS-Wide Aggregate Flow Models.....
D-1560	Flight Risk Assessment Algorithms
D-0520	Trajectory Prediction Methodologies for New Vehicle Classes
D-1700	System Risk Assessment and Management Models
D-2155	Availability and Accessibility of Required Information Design Guidelines
D-2157	Usefulness and Understandability of Information Design Guidelines.....
D-2159	Appropriate Human Engagement Design Guidelines
D-2161	Operational Decision Aids Design Guidelines.....
D-2163	Reliability and Airworthiness of Aircraft Design Guidelines
D-2165	Vehicle Systems Health Management Design Guidelines.....
D-2167	Reliability and Accuracy of Data and Information Design Guidelines.....
D-2169	Aircraft Conformance to Operations Requirements Design Guidelines
D-2171	Aircraft System Contributions to Survival in Crash Scenarios Design Guidelines
D-2173	Ground-Based Systems Health Management Design Guidelines
D-2175	Ground-Based System Conformance Design Guidelines
D-2177	Ground-Based System Contribution to Survival in Crash Scenarios Design Guidelines
D-0750	"Drop-In" Alternative Aviation Fuels
D-0850	Network-Enabled Weather Information System.....
D-0870	Mixed Equipage Trajectory-Based Routes and Advanced OPD Operations.....
D-0880	Terminal and Surface Low Visibility ConOps.....
D-0920	Traffic Spacing Management Components in Terminal and Transition Airspace
D-1010	NextGen Vehicle Technologies
D-1730	Aircraft Procedures and Control Technologies to Reduce Environmental Impacts.....
D-2100	Complex System Validation and Verification Tools and Techniques
D-2127	3D RNAV/RNP Procedures.....
D-1090	Dynamic Airspace Reconfiguration
D-1210	Technologies and Procedures for Dynamically Adjusting Airspace Structures
D-1250	Safe Taxi Operations in Low Visibility Conditions
D-1360	Virtual Tower Capability
D-1710	Risk Reducing Interfaces, Procedures, and Training
D-2110	Environmental Metrics of New and Alternative Vehicle Classes
D-2123	Aircraft Systems Weather Mitigation Requirements
D-2137	Performance Requirements for Aircraft-Based CNS Technologies in Self Separation Airspace
PI-0030	Safety Management Requirements.....
PI-0031	Safety National Leadership Organization.....
PI-0033	National Aviation Safety Strategic Plan (NASSP).....
PI-0102	Initial NextGen Long-Term Environmental Goals and Targets

NASA

PI-0115	NextGen Safety Assessment/Certification - Synchronization of Aircraft and ANS Capabilities	2010
PI-0116	NextGen Safety Assessment/Certification - Standards and Tools	2010
PI-0117	NextGen Safety Assessment/Certification - Resources	2010
PI-0032	Government-Wide Safety Information Sharing	2011
PI-0105	Refined NextGen Long-Term Environmental Targets	2011
PI-0110	International Commercial Space Operations	2011
PI-0113	Environmental Impact Modeling and Assessment	2011
PI-0103	Refined Aviation Environmental Policy	2012
PI-0109	Environmental Technologies Development	2012

National Coordination Office (NCO)

Alignment as SOPR	IOC/IA Date
D-1830 National PNT Architecture Strategy	2010

National Space-Based PNT ExComm

Alignment as SOPR	IOC/IA Date
EN-1101 Enhanced NextGen PNT Services	2025

RITA

Alignment as SOCR	IOC/IA Date
R-2118 Applied Research on NextGen Lighting Systems	2013
D-1830 National PNT Architecture Strategy	2010
D-1550 Augmentation Strategy for GNSS	2013
D-2121 NextGen ALS	2017

Shippers

Alignment as SOCR	IOC/IA Date
OI-4400 Improved Processing of Cargo and Mail Transported via SSCE and CSCE	2014
OI-4401 Improved Cargo and Mail Screening - Level 1 Components	2015

USPS

Alignment as SOCR	IOC/IA Date
OI-4400 Improved Processing of Cargo and Mail Transported via SSCE and CSCE	2014
OI-4401 Improved Cargo and Mail Screening - Level 1 Components	2015
OI-4403 Improved Cargo and Mail Screening - Level 2 Integrated	2018
EN-4311 Cargo & Mail Screening - National Standards	2010
EN-4310 Cargo & Mail Screening - Requirements	2011

Volpe		IOC/IA Date
Alignment as SOCR		
R-0600	Applied Research on Assessing and Predicting Wake Severity	2016
D-1640	Wind-Dependent Wake Vortex Arrival Procedures and Tools	2012
D-1680	Advanced Wake Sensing Capabilities.....	2015
D-0890	Dynamic Wake Management for Single Runway Operations	2016